

Rhymed Vocabulary Input and Involuntary Rehearsal: Iranian Pre-school Learners

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Abstract

Music and rhyme are indeed inseparable constituents of the human language in general and can undoubtedly play a double role in enhancing the communicative skills of the users of each given language if its innate prosaic and metric features are manipulated properly. Relatedly, when it comes to the issue of Second Language Acquisition a teacher can rely to a great extent on the potential power of music and rhyme since these features can facilitate the learning process through their numerous merits. In addition, it can be claimed, that aspect of learning in SLA which might take the advantage of the musical and rhythmic features of a language to a great extent is vocabulary learning for children as new learners. To find the extent to which such a claim is valid, the present study is to focus on a sample of Iranian Pre-School Children's EFL program revolving around vocabulary learning based on a three week syllabus designed to include vocabulary material in form of bilingual (Farsi-English) content-based poems. At the end of the six week syllabus through some oral quizzes the level of their proficiency in absorbing the new vocabulary were measured by trying to evaluate their recall or the involuntary vocabulary rehearsal. Taking the outcomes into consideration, finally it was revealed that the children had shown a greater knowledge of the new vocabulary items they were exposed to through poetry than those ones taught by ordinary non-prosaic language.

Keywords: foreign language acquisition, input, poetry, prosaic features, rehearsal, vocabulary

INTRODUCTION AND LITERATURE REVIEW

Undoubtedly, music and rhyme are integral constitutive parts of the human language, not only for the illocutionary effects they might make for, but also for their potential to reinforce the communicative skills of the users of each given language. As a critic (Del Campo, 1997) asserts interaction is a multimodal construct, and the meaning produced in the course of this process to some degrees relies on "intonation" and "the musical character of language" (as cited in Mora, p.147). Besides, it is important to notice that such a quality is one of the earliest features an infant is to get aware of and what in advance to rely on to facilitate the acquisition of the mother tongue. Several researchers have emphasized on this fact. As Loewy (1995) notices "music of speech is the earliest dimension of language that is used and understood by children" (p. 61). Mora (2000) claims, the repetitive features and the musical nature of language is the very factor which is to affect "the entire language acquisition process" (p.148) since a child can imitate the rhythm and musical patterns of the language much prior to the time he can say them (149).

Based on what was asserted above about the musical nature of language, it is not hard to infer how this natural property of human language can be counted on in the field of Second Language Acquisition. Precisely, a teacher can count to a great extent on the potential probably as "the most effective kinesthetic activit[ies] for language learning (Schunk, p. 118). In truth, the recurrent symmetrical sonic features or the prosaic features of a language foregrounded through repetition in poetry or song can be relied on in teaching EFL especially in case of young beginner learners as it is much pleasant to them to recite melodious poems or songs. In addition, the fact that they have not yet surpassed the critical age and their flexible mind is fresh with the recent experience of their first language acquisition is a proof to the matter and justifies why easily they can memorize poems or songs exposed to them through several repetition while older learners might not. Also one should not forget the fact that there exists less anxiety level as well as fewer contextual constraints for the younger learners because they show no distaste like older learners toward a class program based on games, songs, poem recitations and other group musical activities for fun. Furthermore, their interest in imitating foreign sounds paired with music, without feeling embarrassed about the probable mistakes, will assist them to store much in their long-term musical memory; what is to be accessible for mental rehearsal and memorization (Mora, p. 150).

Among the studies done in case of 'poetry, musicality and vocabulary learning' a large number of them emphasize the fact that such a technique can be much more effective when it comes to 'vocabulary acquisition' as one of the major tasks of an EFL program at the early stages. For example, Lynch (2006) puts forth, music can increase the level of exposing to the new vocabulary; what shall be used as an effective device in facilitating the process of "acquiring high frequency words" (Mudawi, 2015): "a new strategy for teaching core vocabulary to children in early stage" (53). In line with Mudawi's assertions it can be referred to Griffee (1992) believes that the accumulated vocabulary by the aid of songs shapes unconsciously a database of important vocabulary items to be extracted when needed (as cited in M. Carmen Fonseca-Mora and Mark Gant, p.15). Daniels (2003) also emphasizes the fact that music have a remarkable impact on children's second language vocabulary learning for the reason that "Through the use of songs, rhymes and music, children are able to retain much larger amounts of information" (Ortis, 2008, p. 207). To find the extent to which the above-mentioned claims can be valid, the present study is to focus on a sample of Iranian Pre-School Children's EFL program and how their English vocabulary learning is enhanced by taking the advantage of poetry and rhyme. However, the pre-condition for such an experiment is finding how the process of vocabulary learning might be assisted through adopting such a poem- based method. Moreover, it shall become clear through what proper tool or material, the provided inputs, that are the new vocabulary items, can be exposed to the learners in the best way since absolutism, or assuming a kind of universality, is not valid in case of the adopted teaching methods and it is the task of a teacher to have an eye on contextual properties in case of the physical facilities as well as the psychological or cognitive filters: the innate features of the first language of the learners. Precisely, although it is a valid claim to confirm the effect of poetry-based or rhythmic language of poetry on a foreign language learning program, especially when it comes to the issue of vocabulary, a researcher must not ignore the existing relativism in this case and shall concentrate on the innate poetic and prosaic features as well as the place of pedagogical poetry in the culture engendering the first language of the learners specifically in hope of finding more effective strategies. For instance, besides confirming the impacts music can have on vocabulary acquisition, by taking into consideration the specific sound patterns of south eastern languages of Asia, Moriya (1988) emphasizes the value of making use of songs for enhancing the word pronunciations as well because repetitions of the songs can help the learners come up with the differences between those languages and English in case of pronunciation. In accordance, Ohata (2004) draws attentions to the difference between English and Japanese "vowels, consonants and syllable types" and considers poem as an effective and persuasive practice to be replaced by other activities and drills in class to make students catch up with new sound patterns in English; what they can help them much to eradicate the constraints in the way of the large amount of new vocabulary exposed to them through poems or songs.

Taking into account the above issues, it can be deduced that an Iranian teacher must look for a proper method based on the innate features of Farsi so as to apply the use of poem, rhythm and prosaic features of language to English teaching if he intends to grasp more positive results. This is indeed a very hard task and not many studies have been done in this field since it has always been supposed that the methods used to teach a foreign language like English, which is a far cry from Farsi, was at the early stages imitative: an imitation or adaptation of the western classic methods. However, fortunately some recent research has provided good clues about the matter; what can be claimed to have influenced the present study to a great extent. The due research has been conducted by Dr. Behrouz Mahmoodi Bakhtiari and he has provided a comprehensive account of it at a Seminar in Tehran in a lecture. To put in nutshell, he stars with the Persian language's rich poetic background and speaks of how historically such a powerful prosaic trend has gone beyond mere literary or aesthetic boundaries and has found the way to the realm didacticism or pedagogy in many fields of science as well as humanities and language teaching. To bring proof to his assertions he refers to examples of language teaching guide books from centuries ago, in case of teaching Arabic or Turkish, and how they were formed like a bilingual dictionary in form of verse

lines drawing on vocabulary or grammatical matters. A kind of readable poetry which with its strong rhythmic and prosaic qualities could be easily memorized by learners therefore a good help to them at the early stages of learning a foreign language by facilitating the process of Involuntary Vocabulary Rehearsal. He then goes further and focuses on the first example of such books written for Iranian English learners more than a century ago; a powerful bilingual vocabulary and grammar encyclopedia which would insert English words into known Farsi metrics and prosody giving the meaning of words or explaining the grammatical points.

Focusing on Dr. Bakhtiari's insightful research, the present study – concerning the effects of using poem as a method for vocabulary teaching to young Iranian learners – can give direction to its procedure and methodology. What is done here by taking into consideration the valuable language teaching heritage methods in Iran, guided this study to a new prospective: to construct a new teaching strategy to be applied to the chosen samples in order to become able to monitor the final results based on a reliable and valid ground. This new structured method can be claimed to be an attempt to meet in an efficient manner the goal of teaching vocabulary to Iranian English learners of preschool; what can be defined as teaching vocabulary through pedagogical poetry; a poetry which is bilingual and content-based and able to provide a proper contextualization of the new input catalyzing the Involuntary Rehearsal process in advance. The adopted method and procedures will be fully explained later in due parts.

RESEARCH QUESTIONS

The purpose of this study is to find how by the aid of a kind of poetry, which is bilingual and content-based, the new vocabulary can be exposed to Iranian pre-school children. Additionally, it is intended here to find the way consequently such a kind of poetry can affect the formation of a broader knowledge of vocabulary those learners. These questions then can be introduced as the research questions:

- 1. Can a kind of bilingual poetry, written based on the rhythmic and prosaic features of Iranian learners' first language which is Farsi, act as an important factor in the process of acquiring English vocabulary at the early stages?
- 2. Can it be claimed, that such a kind of 'bilingual' poetry as discussed above is efficient enough to act as a catalyzer facilitating the process of Involuntary Vocabulary Rehearsal?

METHOD

Participants

To fulfill the expectations of this study, a sample of 12 Iranian (Farsi Speaking) children (between 5 to 7 years old including 6 boys as well as six girls) were selected from among 24 volunteers to achieve a homogeneous sample. To fulfill the task an IQ test according to Raven's Progressive Colored Matrices (Raven, 1998) was hold among all 24 volunteers. Additionally, to make for a more valid study, the 12 chosen children were examined in separate interviews by the presence of their parents so as to make sure if

previously they have acquired some knowledge of English vocabulary or not. Thus validity of the chosen sample was double-checked.

Procedure

A six week syllabus for the 12 children was designed. Each week had two sessions one hold on Saturdays from 10 to 12 AM and the other one of on Wednesdays from 5 to 7 PM. The first session in each week was allocated to a content-based vocabulary exposition unit through some bilingual songs and poems, which recited first by the teacher for some times and then repeated by whole class in form of a musical game. After about some pauses and intervals whenever the teacher found necessary the same act of recitation and repetition would be going on again but this time with the teacher's intentional pauses or silences to let the children recite by heart if they can. At the end of each of these first sessions of the week some the teacher would use some flash cards with the picture of the lexical item introduced through the songs, telling its name in Farsi, and then asking the students if they can remind the English equivalent of the item after telling what it is in Farsi. It was repeated for several times till the end of the class. Also, during the repetitions the teacher would shift the manner sometimes by telling the English word asking for its Farsi equivalent, till the end of the class. In case of functional words or other structures exposed through the poems or songs the teacher would ask question about the English equivalent of each item, or vice versa, in form of a game or match with a reward for the one who can remember more than the other ones.

The first half hour of the second session in each week was allocated to some activities based on the songs or poems rehearsed in the last session. Later on the students were taught new vocabulary items, related to the same area or context dealt with through musicality and poem in the previous session. But the difference was in fact lying in the method of exposing the vocabulary input to the children. Definitely, items were introduced to the student in form of a story in Farsi but not with a musical language. In the course of the narration students were exposed to the English equivalent of an intended word. Some exercises were also designed in order to check the level of their knowledge about the new vocabulary acquisition in those stories by using flash cards or games in the same manner as what was done in the previous session of that week. At the end of the session some volunteers were asked to retell the story they had faced. Relatedly at the first session of the next week items covered in the previous session as well as those of the two session ago would be put into practice again by reciting again the songs and poems or retelling the stories they had been told.

Data Collection

Relying on the procedure of the present study explained above, at the end of the six week syllabus through some oral quizzes the level of the proficiency of the students in absorbing the new vocabulary were measured by trying to evaluate their recall or the involuntary vocabulary rehearsal. To be specific, the quizzes which were hold separately for each learner, consisted of two items: in the first item some flash cards with pictures were provided and they were asked the name of it in Farsi and English – 30 flash cards, five ones allocated to each of the six vocabulary units within the syllabus. In the second item they were told a new Farsi story, with the familiar vocabulary items; what was in fact like an oral cloze test. Then, they had to fill in the blanks the knowledge of vocabulary they had acquired through the six- week program. Again 30 vocabulary items from the covered six units during the program were selected to grasp validity and objectivity of the study: five items chosen randomly from each unit to fill in the blanks. The blanks to be filled were shown to them by pauses after the teacher had told the English or Farsi equivalent of the appropriate answer. It is necessary to notice that validity of the random vocabularies chosen to be included in the quizzes were checked based on Messick's 'Validation Theory' (1989).

4. Collected Data

		U2 np	U3p	U4 np	U 5p	U6 np
	T √ 4	T √ 3	T √ 2	T √ 2	T √ 3	T √2
	F √ 1	F √ 1	F	F	F	F √1
	РТ	РТ	PT ✓ 1	РТ	РТ	РТ
L 1	PF	PF	PF√ 1	PF √2	PF	PF √2
	UN	UN √1	UN	UN	UN	UN √2
	RT	RT	RT	RT	RT √2	RT
	RF	RF	RF	RF √ 1	RF	RF
	T √ 3	T √2	T √4	T √ 3	T √ 2	T √3
	F	F √1	F	F	F	F √2
	РТ	РТ	РТ	РТ	PT ✓ 1	РТ
L2	PF	PF	PF	PF√ 1	PF	PF
	UN	UN√ 1	UN	UN	UN	UN
	RT√ 2	RT	RT √ 1	RT	RT √ 2	RT
	RF	RF	RF	RF√ 1	RF	RF
	T √3	T √3	T √ 5	T √ 3	T √4	T √ 2
	F	F	F	F	F	F
	РТ	PT √1	РТ	РТ	РТ	PT √2
L3	PF	PF	PF	PF	PF	PF
	UN	UN	UN	UN	UN	UN
	RT√ 2	RT	RT	RT	RT √ 1	RT
	RF	RF √1	RF	RF√ 2	RF	RF √ 1
	T √ 3	T √ 2	T √4	T √ 2	T √ 3	T √ 2
	F	F	F	F	F √ 1	F
	PT√ 1	PT√ 2	PT √ 1	РТ	РТ	РТ
L4	PF	PF	PF	PF √ 1	PF	PF √ 1
	UN	UN√ 1	UN	UN√ 2	UN	UN √ 1
	RT√ 1	RT	RT	RT	RT√ 1	RT √ 2
	RF	RF	RF	RF	RF	RF
	T √3	T √2	T √ 2	T √ 3	T √4	T √ 2
	F	F	F	F	F	F
15	РТ	РТ	PT ✓ 1	РТ	PT √ 1	РТ
L5	PF√ 1	PF ✓ 2	PF	PF√ 1	PF	PF √ 1
	UN	UN√ 1	UN	UN	UN	UN
	RT√ 1	RT	RT √ 2	RT	RT	RT
	RF	RF	RF	RF√ 1	RF	RF √ 2

The data collected through the interviews were tabulated in this format:

	T √ 5	T √ 3	T √3	T √3	T √ 2	Т
	F	F	F	F	F	F √2
	PT	PT ✓ 1	PT	РТ	PT ✓ 1	PT ✓ 1
L6	PF	PF	PF	PF √1	PF	PF
	UN	UN √1		UN	UN	UN
	RT	RT	RT √2		RT√ 2	RT
	RF	RF	RF	RF	RF	RF √ 2
	T √4	T √4	T √3	T √3	T √3	T √1
	F	F	F	F	F	F
	PT	PT	PT√ 1	PT √1	РТ	PT ✓ 1
L7	PF	PF	PF	PF	PF	PF √ 2
	UN ✓ 1		UN √1			UN ✓ 1
	RT	RT	RT	RT	RT ✓ 2	RT
	RF		RF		RF	RF
	T √ 3	T √2	T √ 4		T ✓ 1	T √2
	F	F	F	F	F	F √1
	PT	PT √1	РТ	PT ✓ 1		РТ
L8	PF	PF	PF	PF	PF ✓ 1	PF √ 1
	UN	UN √1		UN	UN	UN
	RT√ 2	RT	RT	RT	RT √ 3	
	RF		RF√ 1	RF √ 1		RF √ 1
	T √ 4		T √2		T ✓ 3	T ✓ 2
	F ✓ 1	F	F	F	F	F
	РТ	РТ	PT		PT√ 1	РТ
L9	PF		PF √ 1		PF	PF √ 1
	UN	UN	UN	UN	UN	UN ✓ 1
	RT	RT		RT √ 1		RT
	RF	RF	RF	RF√ 1		RF ✓ 1
	T ✓ 4	T ✓ 3	T ✓ 2			T ✓ 3
	F	F	F	F	F	F
	PT ✓ 1		PT ✓ 1			PT ✓ 1
L10		PF√ 1	PF	PF	PF	PF
	UN	UN	UN	UN	UN	UN
	RT	RT	RT	RT	RT ✓ 2	
	RF		RF √ 2			$\frac{\text{RF} \checkmark 1}{\text{T}}$
	T√ 3	T√ 4	T ✓ 3	Т	T ✓ 2	
	F	F	F	F	F	F
	PT√ 1	PT	PT		PT ✓ 1	PT
L11		PF	PF ✓ 1		PF	PF √ 1
	UN	UN	UN	UN √2	UN	UN
	RT√ 1	RT	RT ✓ 1	RT	RT √2	RT ✓ 1
	RF	$RF \checkmark 1$	RF	RF	RF	$\frac{\text{RF} \checkmark 1}{7}$
	T √ 3	T ✓ 4	T √ 4	T ✓ 2	T ✓ 3	T ✓ 2
	F	F	F ✓ 1	F	F ✓ 1	F ✓ 1
140	PT ✓ 1	PT	PT	PT	PT	PT
L12	PF	PF ✓ 1	PF	$PF \checkmark 2$	PF	$PF \checkmark 1$
	UN√ 1	UN	UN	UN	UN	UN ✓ 1
	RT	RT	RT	RT	RT √1	RT
	RF	RF	RF	RF √ 1	RF	RF

Item II						
	U1p	U2 np	U3p	U4 np	U 5p	U6 np
	T √3	T √ 2	T ✓ 3			T √2
	F	F	F √ 1	F	F	F 🗸 1
	РТ	PT√ 1	PT ✓ 1	PT √ 2	РТ	РТ
L 1	PF	PF	PF	PF √ 1	PF	PF
	UN	UN	UN	UN √ 1	UN	UN √1
	RT √ 2	RT	RT	RT	RT	RT
	RF	RF √ 2	RF	RF √ 1	RF	RF

	T √4	T √ 3	T √3	T √2	T √3	T √3
	F	F	F	F	F	F √1
	PT √ 1	РТ	РТ	PT √1	PT √2	РТ
L2	PF	PF	PF	PF √1	PF	PF
	UN	UN	UN	UN √1	UN	UN
	RT	-	RT √2	RT	RT	RT √1
	RF		RF Z	RF	RF	RF
	T √2	$T \checkmark 2$				T ✓ 2
				T √ 3	T √ 4	
	F √ 1	F	F	F	F	F
	PT ✓ 1		PT ✓ 1		PT	PT ✓ 1
L3	PF	PF ✓ 2		PF ✓ 1	PF	PF
	UN	UN	UN	UN	UN	UN
	RT √1	RT	RT √1	RT	RT √1	RT
	RF	RF√ 1		RF√ 1	RF	RF ✓ 2
	T √4	T √2	T √3	T √ 1	T √3	T √5
	F	F	F	F	F	F
	РТ	РТ	PT √1	РТ	PT √1	РТ
L4	PF	PF	PF	PF √ 2	PF	PF
	UN √1	UN √1	UN	UN √1	UN	UN
	RT	RT √1	RT	RT √ 1	RT √1	RT
	RF	$RF \checkmark 1$	RF √ 2		RF	RF
	T √ 4					
	F F	T √3	T √1	T √2	T √3	T √1
	PT	F	F	F √1	F	F
	PT PF	PT √1	PT √1	РТ	PT √1	PT √ 1
L5		PF	PF	PF	PF	PF √2
	UN DT (1	UN	UN	UN	UN	UN
	RT ✓ 1	RT	RT	RT	RT √ 1	RT
	RF	RF √ 1	RF √1	RF √2		RF √1
	T √3	T √2	T √3	T √2	T √4	T √2
	F	T √2 F √1	T √3 F	T √2 F	T √4 F	F
	F PT	T ✓2 F ✓1 PT	T √3 F PT √1	T √2 F PT	T √4 F PT	F PT
L6	F	T √2 F √1 PT PF √1	T √3 F PT √1 PF	T √2 F PT PF √1	T √4 F	F PT PF √2
L6	F PT	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN	T √3 F PT √1 PF	T √2 F PT	T √4 F PT	F PT
L6	F PT PF	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT	$T \checkmark 3$ F PT $\checkmark 1$ PF UN $\checkmark 1$ RT	$T \checkmark 2$ F PT PF $\checkmark 1$ UN $\checkmark 1$ RT	T √4 F PT PF UN RT √1	F PT PF √2
L6	F PT PF UN	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT	$T \checkmark 3$ F PT $\checkmark 1$ PF UN $\checkmark 1$ RT RF	$T \checkmark 2$ F PT PF $\checkmark 1$ UN $\checkmark 1$ RT RF $\checkmark 1$	T √4 F PT PF UN RT √1	F PT PF ✓ 2 UN ✓ 1
L6	F PT PF UN RT √2	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$	$T \checkmark 3$ F PT $\checkmark 1$ PF UN $\checkmark 1$ RT RF	$T \checkmark 2$ F PT PF $\checkmark 1$ UN $\checkmark 1$ RT	T √4 F PT PF UN RT √1	F PT PF ✓ 2 UN ✓ 1 RT
L6	F PT PF UN RT ✓ 2 RF	$T \checkmark 2$ F $\checkmark 1$ PT PF $\checkmark 1$ UN RT RF $\checkmark 1$	$T \checkmark 3$ F PT $\checkmark 1$ PF UN $\checkmark 1$ RT RF	$T \checkmark 2$ F PT PF $\checkmark 1$ UN $\checkmark 1$ RT RF $\checkmark 1$	T √4 F PT PF UN RT √1 RF	F PT PF ✓2 UN ✓1 RT RF
L6	F PT PF UN $RT \checkmark 2$ RF $T \checkmark 3$ F	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ F	$\begin{array}{c} T \checkmark 3 \\ F \\ PT \checkmark 1 \\ PF \\ UN \checkmark 1 \\ RT \\ RF \\ T \checkmark 4 \end{array}$	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 1$ F	$\begin{array}{c} T \checkmark 4 \\ F \\ PT \\ PF \\ UN \\ RT \checkmark 1 \\ RF \\ T \checkmark 5 \\ F \end{array}$	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$
L6	F PT PF UN RT ✓2 RF T √3	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$	$\begin{array}{c} T \checkmark 3 \\ F \\ PT \checkmark 1 \\ PF \\ UN \checkmark 1 \\ RT \\ RF \\ T \\ F \end{array}$	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 1$	T √4 F PT PF UN RT √1 RF T √5	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F
	F PT PF UN $RT \checkmark 2$ RF $T \checkmark 3$ F PT $PF \checkmark 1$	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ F PT	$T \sqrt{3}$ F $PT \sqrt{1}$ PF $UN \sqrt{1}$ RT RF $T \sqrt{4}$ F $PT \sqrt{1}$	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 1$ F $PT \checkmark 1$ $PF \checkmark 2$	T √4 F PT PF UN RT √1 RF T √5 F PT PF	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF
	F PT PF UN $RT \checkmark 2$ RF $T \checkmark 3$ F PT $PF \checkmark 1$ UN	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ F PT PF $UN \checkmark 1$	$T \checkmark 3$ F $PT \checkmark 1$ PF $UN \checkmark 1$ RT RF $T \checkmark 4$ F $PT \checkmark 1$ PF UN	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 1$ F $PT \checkmark 1$ $PF \checkmark 2$ UN	T √4 F PT PF UN RT √1 RF T √5 F PT PF UN	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF UN
	F PT PF UN $RT \checkmark 2$ RF $T \checkmark 3$ F PT $PF \checkmark 1$ UN $RT \checkmark 1$	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ F PT PF $UN \checkmark 1$ RT	$T \checkmark 3$ F $PT \checkmark 1$ PF $UN \checkmark 1$ RT RF $T \checkmark 4$ F $PT \checkmark 1$ PF UN RT	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 1$ F $PT \checkmark 1$ $PF \checkmark 2$ UN $RT \checkmark 1$	T √4 F PT PF UN RT √1 RF T √5 F PT PF UN RT	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF UN RT
	F PT PF UN $RT \checkmark 2$ RF $T \checkmark 3$ F PT $PF \checkmark 1$ UN $RT \checkmark 1$ RF	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ F PT PF $UN \checkmark 1$ RT $RF \checkmark 1$	$\begin{array}{c} T \checkmark 3 \\ F \\ PT \checkmark 1 \\ PF \\ UN \checkmark 1 \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ RF \\ \end{array}$	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ $RF \checkmark 1$ $T \checkmark 1$ F $PT \checkmark 1$ $PF \checkmark 2$ UN $RT \checkmark 1$ RF	T ✓4 F PT PF UN RT ✓1 RF T ✓5 F PT PF UN RT RF	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF UN RT $RF \checkmark 1$
	F PT PF UN $RT \checkmark 2$ RF $T \checkmark 3$ F PT $PF \checkmark 1$ UN $RT \checkmark 1$ RF $T \checkmark 5$	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ F PT PF $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 3$	$\begin{array}{c} T & \checkmark 3 \\ F \\ PT \checkmark 1 \\ PF \\ UN \checkmark 1 \\ RT \\ RF \\ T & \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ T & \checkmark 4 \end{array}$	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 1$ F $PT \checkmark 1$ $PF \checkmark 2$ UN $RT \checkmark 1$ RF $T \checkmark 2$	$\begin{array}{c} T \checkmark 4 \\ F \\ PT \\ PF \\ UN \\ RT \checkmark 1 \\ RF \\ T \checkmark 5 \\ F \\ PT \\ PF \\ UN \\ RT \\ RF \\ T \checkmark 3 \end{array}$	F $PT \qquad 2$ $UN \qquad 1$ RT RF $T \qquad 3$ F $PT \qquad 1$ PF UN RT $RF \qquad 1$ $T \qquad 2$
	F PT PF UN $RT \checkmark 2$ RF $T \checkmark 3$ F PT $PF \checkmark 1$ UN $RT \checkmark 1$ RF $T \checkmark 5$ F	$\begin{array}{c c} T & \checkmark 2 \\ F & \checkmark 1 \\ PT \\ PF & \checkmark 1 \\ UN \\ RT \\ RF & \checkmark 1 \\ \hline T & \checkmark 3 \\ F \\ PT \\ PF \\ UN & \checkmark 1 \\ RT \\ RF & \checkmark 1 \\ \hline T & \checkmark 3 \\ F & \checkmark 1 \end{array}$	$\begin{array}{c} T \checkmark 3 \\ F \\ PT \checkmark 1 \\ PF \\ UN \checkmark 1 \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ T \checkmark 4 \\ F \\ T \checkmark 4 \\ F \end{array}$	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 1$ F $PT \checkmark 1$ $PF \checkmark 2$ UN $RT \checkmark 1$ RF $T \checkmark 2$ F	$\begin{array}{c} T \checkmark 4 \\ F \\ PT \\ PF \\ UN \\ RT \checkmark 1 \\ RF \\ T \checkmark 5 \\ F \\ PT \\ PF \\ UN \\ RT \\ RF \\ T \checkmark 3 \\ F \end{array}$	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF UN RT $RF \checkmark 1$ $T \checkmark 2$ F
L7	F PT PF UN $RT \checkmark 2$ RF $T \checkmark 3$ F PT $PF \checkmark 1$ UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ F PT PF $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 3$ $F \checkmark 1$ PT	$\begin{array}{c} T \checkmark 3 \\ F \\ PT \checkmark 1 \\ PF \\ UN \checkmark 1 \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ T \checkmark 4 \\ F \\ F \\ T \checkmark 4 \\ F \\ F \\ T \checkmark 4 \\ F \\ F \\ T \checkmark 1 \\ Y \\ T \lor 1 \\ Y \\ T = 1 \\ Y \\ T$	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ RT $RF \checkmark 1$ $PT \checkmark 1$ $PF \checkmark 2$ UN $RT \checkmark 1$ RF $T \checkmark 2$ F PT	$T \checkmark 4$ F PT PF UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN RT RF $T \checkmark 3$ F $PT \checkmark 1$	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF UN RT $RF \checkmark 1$ $T \checkmark 2$ F $PT \checkmark 2$
	F PT PF UN $RT \checkmark 2$ RF $T \checkmark 3$ F PT $PF \checkmark 1$ UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ F PT PF $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 3$ $F \checkmark 1$ PT PF	$\begin{array}{c} T \checkmark 3 \\ F \\ PT \checkmark 1 \\ PF \\ UN \checkmark 1 \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ F \\ PT \lor 1 \\ PT \lor 1 \\ F \\ PT \lor 1 \\ PT \lor 1$	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 1$ F $PT \checkmark 1$ $RF \checkmark 2$ UN $RT \checkmark 1$ RF $T \checkmark 2$ F PT $PT \qquad PT$ $PF \qquad 2$	$T \checkmark 4$ F PT PF UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF UN RT $RF \checkmark 1$ $T \checkmark 2$ F $PT \checkmark 2$ PF
L7	F PT PF UN $RT \checkmark 2$ RF $T \checkmark 3$ F PT $PF \checkmark 1$ UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ F PT PF $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 3$ $F \checkmark 1$ PT PF UN	$T \checkmark 3$ F $PT \checkmark 1$ PF $UN \checkmark 1$ RT RF $T \checkmark 4$ F $PT \checkmark 1$ PF UN RT RF $T \checkmark 4$ F $PT \checkmark 1$ F $PT \checkmark 1$ F $PT \checkmark 1$ F $PT \checkmark 1$	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 1$ F $PT \checkmark 1$ RF $T \checkmark 2$ F PT $PT \checkmark 2$ UN UN $T \checkmark 2$ F PT $PF \checkmark 2$ $UN \checkmark 1$	$T \checkmark 4$ F PT PF UN RT $\checkmark 1$ RF T $\checkmark 5$ F PT PF UN RT RF T $\checkmark 3$ F PT $\checkmark 1$ PF UN $\checkmark 1$	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF UN RT $RF \checkmark 1$ $T \checkmark 2$ F $PT \checkmark 2$ PF $UN \checkmark 1$
L7	F PT PF UN $RT \checkmark 2$ RF $T \checkmark 3$ F PT $PF \checkmark 1$ UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN RT	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ F PT PF $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 3$ $F \checkmark 1$ PT PF UN $RT \checkmark 1$	$\begin{array}{c} T \checkmark 3 \\ F \\ PT \checkmark 1 \\ PF \\ UN \checkmark 1 \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ PF \\ UN \\ RT \\ RT \\ \end{array}$	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 1$ F $PT \checkmark 1$ $RF \checkmark 2$ UN $RT \checkmark 1$ RF $T \checkmark 2$ F PT $PF \checkmark 2$ $UN \checkmark 1$ RT	$T \checkmark 4$ F PT PF UN RT $\checkmark 1$ RF T $\checkmark 5$ F PT PF UN RT RF T $\checkmark 3$ F PT $\checkmark 1$ PF UN $\checkmark 1$ RT	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF UN RT $RF \checkmark 1$ $T \checkmark 2$ F $PT \checkmark 2$ PF $UN \checkmark 1$ RT
L7	F PT PF UN $RT \checkmark 2$ RF $T \checkmark 3$ F PT $PF \checkmark 1$ UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN RT RF	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ F PT PF $UN \checkmark 1$ RT PT PT PT PT PT PT PT P	$\begin{array}{c} T \checkmark 3 \\ F \\ PT \checkmark 1 \\ PF \\ UN \checkmark 1 \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ UN \\ RT \\ RF \\ RF \\ RF \\ RF \\ RF \\ RF \\ RF$	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ $RF \checkmark 1$ $T \checkmark 1$ F $PT \checkmark 1$ $PF \checkmark 2$ UN $RT \checkmark 1$ RF $T \checkmark 2$ F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RT RF	$T \checkmark 4$ F PT PF UN RT $\checkmark 1$ RF T $\checkmark 5$ F PT PF UN RT RF T $\checkmark 3$ F PT $\checkmark 1$ PF UN $\checkmark 1$ RT RF UN $\checkmark 1$ RT	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF UN RT $RF \checkmark 1$ $T \checkmark 2$ F $PT \checkmark 2$ PF $UN \checkmark 1$ RT RF
L7	F PT PF UN $RT \checkmark 2$ RF $T \checkmark 3$ F PT $PF \checkmark 1$ UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN RT RF $T \checkmark 4$	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ F PT PF $UN \checkmark 1$ RT PT PT PT PT PT PT PT P	$\begin{array}{c} T \checkmark 3 \\ F \\ PT \checkmark 1 \\ PF \\ UN \checkmark 1 \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ UN \\ RT \\ RF \\ T \checkmark 5 \end{array}$	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ $RF \checkmark 1$ $T \checkmark 1$ F $PT \checkmark 1$ $PF \checkmark 2$ UN $RT \checkmark 1$ RF $T \checkmark 2$ F PT $PF \checkmark 2$ $UN \checkmark 1$ RF $T \checkmark 2$ F $T \checkmark 2$ F $T \checkmark 2$ $T \sim 2$	$T \checkmark 4$ F PT PF UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF $UN \checkmark 1$ RT RF $T \checkmark 3$	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF UN RT $RF \checkmark 1$ $T \checkmark 2$ F $PT \checkmark 2$ PF $UN \checkmark 1$ RT RF $T \checkmark 3$
L7	F PT PF UN $RT \checkmark 2$ RF $T \checkmark 3$ F PT $PF \checkmark 1$ UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN RT RF $T \checkmark 4$	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ F PT PF $UN \checkmark 1$ $RF \checkmark 1$ PT PF UN $RT \checkmark 1$ RF $T \checkmark 4$ F	$\begin{array}{c} T \checkmark 3 \\ F \\ PT \checkmark 1 \\ PF \\ UN \checkmark 1 \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ UN \\ RT \\ RF \\ T \checkmark 5 \\ F \end{array}$	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 1$ F $PT \checkmark 1$ $PF \checkmark 2$ UN $RT \checkmark 1$ RF $T \checkmark 2$ F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 2$ F PT $PF \checkmark 2$ F $T \checkmark 2$ F F $T \checkmark 2$ F	$T \checkmark 4$ F PT PF UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN RT RF $T \checkmark 3$ F $UN \checkmark 1$ RF $T \checkmark 3$ F	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF UN RT $RF \checkmark 1$ $T \checkmark 2$ F $PT \checkmark 2$ PF $UN \checkmark 1$ RT RF $T \checkmark 3$ $F \checkmark 1$
L7 L8	F PT PF UN $RT \checkmark 2$ RF $T \checkmark 3$ F PT $PF \checkmark 1$ UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN RT RF $T \checkmark 4$ F PT	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ $F \\ PT$ PF $UN \checkmark 1$ $RT \\ T \\ 7 \\ 7$ $RF \\ 1$ $T \\ 7$ $RT \\ 1$ $T \\ 7$ $RT \\ 1$ $T \\ 7$ $T \\ 7$ $F \\ 1$ $T \\ 7$	$\begin{array}{c} T \checkmark 3 \\ F \\ PT \checkmark 1 \\ PF \\ UN \checkmark 1 \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ T \checkmark 5 \\ F \\ PT \\ T \checkmark 5 \\ F \\ PT \\ \end{array}$	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ $RT \checkmark 1$ F $PT \checkmark 1$ $PF \checkmark 2$ UN $RT \checkmark 1$ RF $T \checkmark 2$ F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 2$ F $PT \qquad F$ $PT \qquad F$ $T \checkmark 2$ F $PT \qquad T \qquad 1$	$T \checkmark 4$ F PT PF UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN RT RF $T \checkmark 3$ F $PT \checkmark 1$ RF $T \checkmark 3$ F $T \checkmark 3$ F $T \checkmark 3$ F $T \checkmark 3$ F	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF UN RT $RF \checkmark 1$ $T \checkmark 2$ F $PT \checkmark 2$ PF $UN \checkmark 1$ RT RF $T \checkmark 3$ $F \checkmark 1$ PT
L7	F PT PF UN $RT \checkmark 2$ RF $T \checkmark 3$ F PT $PF \checkmark 1$ UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN RT RF $T \checkmark 4$ F PT PF	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ F PT PF $UN \checkmark 1$ RT $RF \checkmark 1$ PT PF UN $RT \checkmark 1$ RF $T \checkmark 4$ F PT PF	$\begin{array}{c} T \checkmark 3 \\ F \\ PT \checkmark 1 \\ PF \\ UN \checkmark 1 \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ T \checkmark 4 \\ F \\ F \\ T \checkmark 5 \\ F \\ PT \\ PF \\ PF \\ PF \\ PF \\ PF \\ PF $	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ $RT \land 1$ $F \land 1$ $PT \checkmark 1$ $PF \checkmark 2$ UN $RT \checkmark 1$ RF $T \checkmark 2$ F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 2$ F $PT \land 1$ $PF \checkmark 2$	$T \checkmark 4$ F PT PF UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN RT RF $T \checkmark 3$ F $PT \checkmark 1$ RF $T \checkmark 3$ F $PT \checkmark 1$ PF $UN \checkmark 1$	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF UN RT $RF \checkmark 1$ $T \checkmark 2$ F $PT \checkmark 2$ PF $UN \checkmark 1$ RT RF $T \checkmark 3$ $F \checkmark 1$ PT PF
L7 L8	F PT PF UN $RT \checkmark 2$ RF PT $PF \checkmark 1$ UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN RT RF $T \checkmark 4$ F PT PF UN	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ F PT PF $UN \checkmark 1$ RT PT PF UN $RT \checkmark 1$ RF $T \checkmark 4$ F PT PF $UN \checkmark 1$	$T \checkmark 3$ F $PT \checkmark 1$ PF $UN \checkmark 1$ RT RF $T \checkmark 4$ F $PT \checkmark 1$ PF UN RT RF $T \checkmark 4$ F $PT \checkmark 1$ PF UN RT RF $T \checkmark 5$ F PT PF UN	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 1$ F $PT \checkmark 1$ $RF \checkmark 2$ UN $RT \checkmark 1$ RF $T \checkmark 2$ F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 2$ F $PT \checkmark 1$ $PF \lor 1$ $PF \lor 1$	$T \checkmark 4$ F PT PF UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF $UN \checkmark 1$	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF UN RT $RF \checkmark 1$ $T \checkmark 2$ F $PT \checkmark 2$ PF $UN \checkmark 1$ RT RF $T \checkmark 3$ $F \checkmark 1$ PT
L7 L8	F PT PF UN $RT \checkmark 2$ RF $T \checkmark 3$ F PT $PF \checkmark 1$ UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN RT RF $T \checkmark 4$ F PT PF	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ F PT PF $UN \checkmark 1$ RT $RF \checkmark 1$ PT PF UN $RT \checkmark 1$ RF $T \checkmark 4$ F PT PF	$\begin{array}{c} T \checkmark 3 \\ F \\ PT \checkmark 1 \\ PF \\ UN \checkmark 1 \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ T \checkmark 4 \\ F \\ PT \checkmark 1 \\ PF \\ UN \\ RT \\ RF \\ T \checkmark 4 \\ F \\ F \\ T \checkmark 5 \\ F \\ PT \\ PF \\ PF \\ PF \\ PF \\ PF \\ PF $	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ $RT \land 1$ $F \land 1$ $PT \checkmark 1$ $PF \checkmark 2$ UN $RT \checkmark 1$ RF $T \checkmark 2$ F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 2$ F $PT \land 1$ $PF \checkmark 2$	$T \checkmark 4$ F PT PF UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN RT RF $T \checkmark 3$ F $PT \checkmark 1$ RF $T \checkmark 3$ F $PT \checkmark 1$ PF $UN \checkmark 1$	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF UN RT $RF \checkmark 1$ $T \checkmark 2$ F $PT \checkmark 2$ PF $UN \checkmark 1$ RT RF $T \checkmark 3$ $F \checkmark 1$ PT PF
L7 L8	F PT PF UN $RT \checkmark 2$ RF PT $PF \checkmark 1$ UN $RT \checkmark 1$ RF $T \checkmark 5$ F PT PF UN RT RF $T \checkmark 4$ F PT PF UN	$T \checkmark 2$ $F \checkmark 1$ PT $PF \checkmark 1$ UN RT $RF \checkmark 1$ $T \checkmark 3$ F PT PF $UN \checkmark 1$ RT PT PF UN $RT \checkmark 1$ RF $T \checkmark 4$ F PT PF $UN \checkmark 1$	$T \checkmark 3$ F $PT \checkmark 1$ PF $UN \checkmark 1$ RT RF $T \checkmark 4$ F $PT \checkmark 1$ PF UN RT RF $T \checkmark 4$ F $PT \checkmark 1$ PF UN RT RF $T \checkmark 5$ F PT PF UN	$T \checkmark 2$ F PT $PF \checkmark 1$ $UN \checkmark 1$ RT $RF \checkmark 1$ $T \checkmark 1$ F $PT \checkmark 1$ $RF \checkmark 2$ UN $RT \checkmark 1$ RF $T \checkmark 2$ F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 2$ F $PT \checkmark 1$ $PF \lor 1$ $PF \lor 1$	$T \checkmark 4$ F PT PF UN RT $\checkmark 1$ RF T $\checkmark 5$ F PT PF UN RT RF T $\checkmark 3$ F PT $\checkmark 1$ PF UN $\checkmark 1$ RT RF T $\checkmark 3$ F PT $\checkmark 1$ PF UN $\checkmark 1$ RT RF T $\checkmark 3$ F PT $\checkmark 1$ PF UN $\checkmark 1$	F PT $PF \checkmark 2$ $UN \checkmark 1$ RT RF $T \checkmark 3$ F $PT \checkmark 1$ PF UN RT $RF \checkmark 1$ $T \checkmark 2$ F $PT \checkmark 2$ PF $UN \checkmark 1$ RT RF $T \checkmark 3$ $F \checkmark 1$ PT PF UN

	T √5	T √3	T √2	T √3	T √3	T √1
	F	F	F	F √1	F	F √1
	РТ	РТ	PT √2	РТ	РТ	PT √2
L10	PF	PF	PF	PF √1	PF √1	PF
	UN	UN	UN	UN	UN	UN √1
	RT	RT √1	RT √1	RT	RT √1	RT
	RF	RF √1	RF	RF	RF	RF
	T √4	T √2	T √3	T √2	T √4	T √2
	F	F	F	F	F	F
	PT √1	PT √1	РТ	PT √1	РТ	РТ
L11	PF	PF √1	PF √1	PF √2	PF √1	PF √2
	UN	UN	UN	UN	UN	UN
	RT	RT	RT √1	RT	RT	RT
	RF	RF √1	RF	RF	RF	RF √1
	T √3	T √3	T √4	T √2	T √3	T √2
	F	F √2	F	F √2	F	F
	PT √1	PT	РТ	РТ	PT	РТ
L12	PF	PF	PF	PF	PF	PF √2
	UN √1	UN	UN	UN √1	UN	UN
	RT √1	RT	RT √1	RT	RT √2	RT
	RF	RF	RF	RF	RF	RF √1
L = Learner						
U = Unit						

o onic

p = Poem-based

np = Not based on poem and song

T= True Answers

F= False Answers

PT= True Answer after some pauses

PF= False Answer after some pauses

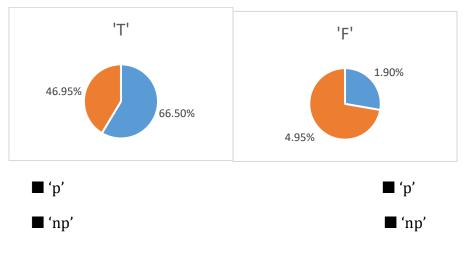
UN= Unanswered

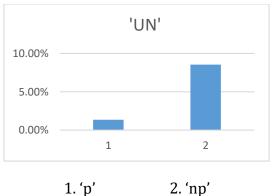
RT= True Answer after the teacher's repetition of the Farsi or English equivalent RF= False Answer after the teacher's repetition of the Farsi or English equivalent

DATA ANALYSIS AND RESULTS

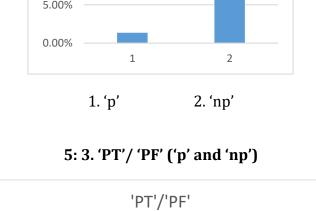
The classified collected were then put into analysis in light of the mean percentage in case of each item and sequentially each pair of correspondent outcomes ('p' and 'np') were compared to one another. For a more clear-cut reflection they were diagramed as follows:

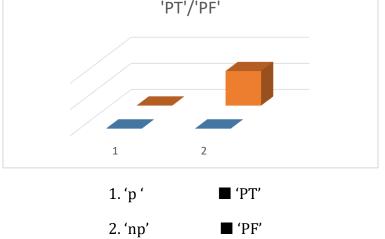




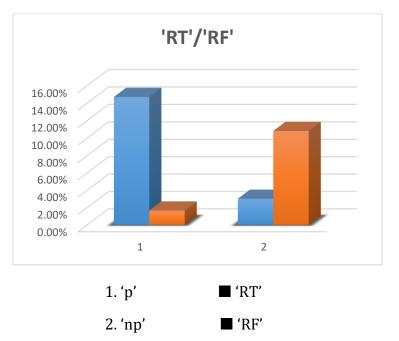


5: 2. 'UN' ('p' and 'np')





5.4. 'RT'/ 'RF' ('p' and 'np')



Taking into consideration the above data and diagrams, some important results can be inferred:

- 1. As the percentages show, in case of T/F, all the 12 learners were more successful in providing true answers when dealing with the items containing vocabulary from the poetic input, rather than the none-poetic one, they had during the sessions. This can indeed be a good proof to the positive effect of the rhythmic and prosaic effects of poetry in teaching vocabulary to EFL learners. Relatedly, such a fact, can be inferred from when the greater percentage of the false answers to the items vocabulary acquired through non-poetic method is compared to the number of false answers in case of poem-based vocabulary items acquired. Additionally, focusing on the matter of Standard Deviation (SD), can be also much meaningful in comparing false answers in p and 'np', vocabulary items: 1.7 for 'p' while 5.6 for 'np'. Actually here deviation from the mean number of false answers can be inferred to stand for the homogeneity or inhomogeneity of the samples (12 learners). Another way, it can be claimed that in case of 'p' the lower SD rate shows the less variety or the fact that leaners were more or less of the same rate of false answers; what can be taken that acquiring vocabulary items through poetic and rhymed input has been nearly of the same effectiveness in all the 12 learners. In contrast, dealing with the rate of SD for 'np' sheds light on less homogeneity between the samples' knowledge of the vocabulary acquired that can indicate something important: rhyme and meter or poem-based vocabulary input can affect the learners much more by reducing the possibility of probable inhomogeneity caused by some learner's weakness in dealing with non-poetic vocabulary input.
- 2. The percentage of the unanswered items can also be illuminating in this study: only in 1.35% of the 'p' items, the leaners remained silent or were unable to reply while the rate in case of 'np' was 8.3. The inability to provide an answer can stand for the fact that the act of lateralization has not been done well; what prospectively may stand for the fact that the method through which the input is exposed to the learners is not effective enough. Thus, it can be ascertained that learners had less difficulty to answer to vocabulary items acquired based on poems.
- 3. Pause or hesitation in answering a vocabulary test or item is much significant and can stand for two things at least: first of all that the learner is not sure about the true answer because acquisition procedure has not been effective enough at some points or secondly, to mean that the process of involuntary mental rehearsal (din) has not been catalyzed efficiently through the exposed input. To take into consideration the significance of pauses in the present study, it was divided into two sub-items: true or false answers after the occurrence of pauses. The data analysis then showed on average 8.6% of true answers after the learners' hesitations in case of poem-based vocabulary materials while the average rate in case of the unpoetic input was 7.1%. There is therefore not much

difference between the two items from this perspective and this fact implies the natural hesitation of learners for putting the effort in to find the answers by dealing with the probable passive vocabulary items acquired. However, the analysis shows quite different results when it comes to the issue of false provided answers after pauses. Precisely, the average percentage for poembased 'PF' was only 3% while it was 13.2% for non-poem based vocabulary items. This in then to prove the fact that learners had much more doubts about the meaning of the vocabulary items they had acquired through the no-poem based inputs and even after some hesitations for getting to the true answers they were not successful. This might again stand for the fact that words learned through such a method were not in their mind as active as those acquired through poem-based materials.

4. The last item which was measured in this study is the matter of 'repeating' and how it might help the learners to find the true answers which they were unable to get at the first time the item exposed to them. To check the effect of 'repeating' then the average percentage of the true or false answers provided by the learners after the teacher's rereading of the item was calculated. Actually, such an act of 'repeating' would stimulate their mind so as to recheck their knowledge of the vocabulary item put into question; a process directly affected by their involuntary mental rehearsal. Hence, the number (or percentage) of true or false answers provided by the learners in case of the poem-based vocabulary items and those not acquired through poem and rhyme on the total level can be taken as a good category to measure the effect of relying on poem as an effective vocabulary teaching method. What was found by data analysis in this study was then to prove such a fact as the 'RT' range was 14% in case of the questions which their answers were acquired through poem while it was 3.1% for the nonpoem based ones. Relatedly, 'RF' percentage for the former was only 1.1% which is rather low in comparison to that of the latter which was 11.6%.

CONCLUSION

The present study was an attempt to focus on a sample of Iranian Pre-School Children's EFL program revolving around vocabulary learning through the exposition of input through a kind of bilingual poetry. As a matter of fact, such a method might be claimed to be much advantageous since the musical and rhythmic features of a language – the mother tongue – to a great extent can stimulate the learners' mind by stimulating their involuntary mental rehearsal; a process which in case of vocabulary teaching can be much efficient since for pre-school EFL learners 'recall' plays a major role in the field of vocabulary learning by activating the probable passive inputs; thus catalyzing or facilitating the process of lateralization and acquisition.

Going through the study and analyzing the data gathered, it can now be rather likely to confirm the positive effects and benefits of relying on a poem-based vocabulary acquisition method. Consequently, on such a basis this study can provide reliable answers to the aforementioned 'Research Questions'. Precisely, the study was successful

to a great extent to depict how a kind of bilingual poetry, written based on the rhythmic and prosaic features of Iranian learners' first language which is Farsi, could be much effective through facilitating the process of Involuntary Vocabulary Rehearsal and recall; what was indeed because of the way a method of that quality is able to stimulate the learners lateralization of the English vocabulary items and their Farsi equivalents via rhythm, prosody and its outstanding unique feature which is the facility of repeating and recalling what is versified.

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Appendix 1

Session 1 Apple میوه ی بهشته تو Book كتاب نوشته شیرین و سرخ، Red, Sweet عجب چه Big درشته **** منم منم يرتقال Orange ناب شمال نارنگی همTangerine تازه Fresh سرحال **** هلوPeachو زردآلو Ripe , Apricot پخته او گيلاس Cherry، ألبالو Black Cherryسیاہ رو **** Cucumberخیارم Greenو سبز، باحالم باTomatoکه گوجه توى Saladسالادم **** چەHot چە تند، پيازم Onion اشک سازم دوست Garlicبدبو اون سیر تند و نازم **** موز Pineapple, Banana آناناس ناب و خوشگل ميوه ي استوايي Tropical باب دل **** خربزره هستشMelon هندونه Watermelon Cantaloupe هم طالبی میل همه تو هر سن **** Carrot داره Vitamin همون هويچ، ويتامين برای Eveمفیدہ برای چشم تیز بین **** Pomegranate اصلا رقيب نداره دلم مي خواد ، انار Juice آب آنار که حال میاره ****

Session 2

دو سه شب پیش شام یه party و مهمونی خیلی بزرگ داشتیم خونمون. باید کلی خرید و shopping انجام می دادیم. مادرم که طبق معمول همش stress و اضطراب داشت که همه کارها رو برسه انجام بده: غذاها و . foods شيرينى و .pastries چاى و fea و . desert دسر ميوه اى . تازه قبل اينا بايد postries چاى و تميزكارى خونه انجام مى شد . واى چقدر طول كشيد . خلاصه قبل مهمونى برا آماده كردن دسر ها كلى ميوه مى خواستيم . البته قبلا پدرم ميوه هاى اصلى يعنى خيار و سيب و cucumber و apple رو گرفته بود . به علاوه grape و پرتقال و موز و انگور و . grape اما برا ميوه هاى توى دسر كلى چيز ديگه نياز بود . من و داداش بزرگم قرار شد بريم يه ميوه فروشى بزرگ يعنى يه معنه عنوى دسر كلى چيز ديگه نياز بود . مادرم كلى ميوه مى خواستيم . يه ميوه فروشى بزرگ يعنى يه mango اما برا ميوه هاى توى دسر كلى چيز ديگه نياز بود . مادرم كلى ميوه ميخواست apple و apple آناناس mango او انبه، نارگيل و . moconnic يوت فرنگى و . magoberry تمشك و مشغول بوديم . بالاخره كارمون تموم شد . اومديم تو خيابون strawberry كه برا يه خورشى يه مادرم زنگ زد به گوشى همراه و maso مند . اومديم تو خيابون straw a tax . واى . نزديك نيم ساعت تو ميوه فروشى مرفعول بوديم . بالاخره كارمون تموم شد . اومديم تو خيابون yoghur مامانم . واى . نزديك نيم ساعت به ميوه در شى زنگ زد به گوشى همراه و mobin من . واى خدا . گفت يادش رفته كه برا يه خورشت و with به و در برا زنگ زد به گوشى همراه و strappe هم برا برانى كه بريزه تو yoghur و خاست . تازه گفت مى خواد برا مى خواسته . بادمجون و the و يعنى mobin من . واى خدا . گفت يادش رفته كه برا يه خورشت و kith مى گرفتيم يهو مادرم موان خدا. تا برگرديم نزديك ساعت پنج شد . مى دونيد چى شد بعد ده دقيقه مادرم يهو منو مى . آشپزخانه و گفت: واى پسرم olive و زيتون يادم رفت . بدو برو بگير . قربون پسر !

Appendix 2

Session 3

Baker که باشه نونوا نون می پز هbread تا ما بخوریم happy شاد شکر God و thankخدا ****

کارمند یه دفتری، clerk تو یه office م نامه ها letters به دستم جواب، نویسم answerنویسم Responsible من زياد، مسئول کار بسيار راضى و content از من، my boss همون رييسم، **** Physician و Doctor پزشک و طبيب ، ماهر م ماهر وIngenious به تشخیص diagnosis قادرم تو فهمillness, sickness بیماری، استاد ، master ام قرص وpill و شربت، Syrup به دوا، drugوار دم Patientو مريض تو هر حال برا درمان cureحاضرم این وظیفه و این duty نمیرہ ہرگز از خاطرم **** Tailorو خياطم من كارمsewباشه، دوختن باsewing machine و چرخ خیاطی و سوزن Ironدارم من اتو Tape measure و متر حتما یه عالمه نخ thread نياز اينtechniqueفن buttonو دكمه، قيچى Scissors که cut بریدن **** سنجاق و pin و پارچه satin ، cloth وساتن

نخىcotton و پشمى wool چیت هندیIndian, chintz مخملvelourحرير silk dark و light و تیره، روشن هرچي باشه زود و soon مي دوزم مثل أب خوردن پیر هن مردونه shirt skirtیعنی دامن dressلباس و شلوار fit ,trousers, قد تن **** من دارم یه shop یه دکون خوار و بار وgroceryدر اون Two apprentice و دو شاگرد دارم هردو young و جوون خیلیmany ،thingsچیز دارم خريد ازم shopping, easy آسون Cereal غلات ، آرد Cereal Spice، ادویه فر اوون Oil و روغن، برنج Rice لبنيات،dairy پر و پيمون تخم مرغ و eggهم که هست Sugar شکر و soap صابون نوشيدني ها وdrinks باflavor و طعم گوناگون مشتری ها customers همهappreciative و ممنون Priceو قيمت چون خوب مناسب و cheap ارزون و گرون فروشی overcharge چون نکنم بی گمون **** نجارم و Carpenter درودگر یا کهjointer واردم به منبت استاد و یه wood cutter با هر نوع چوبو woodکارم Type اش فرق داره Type با الواريا كه با board با تخته و با Iumber میخ دارم و nailزیاد هم چکش و هم hammer رندهfile ، Planeسوهان تيغه ي تيز و cutter اره ی تیز یه sharp saw تو برش،cut من ماهر Emervدارم سنباده Vise، گيره هاي چغر چسب برا چوب ، wood glue منگنه و stapler صندلیchair، میز table

تختbed و مبل، furniture هرچی بخوای می سازم I can ,می تونم ، من قادر

Session 4

یه day با مادر بزرگم رفتیم بازار traditional و سنتی شهرمون. اونجا پر از shop و مغازه های جورواجور بود. اول رفتيم قصابي . مادربزرگم از butcher قصاب يک کيلو meat و گوشت خريد. گوشت lamb و بره تازه و .fresh مغازه ی بقلی که next to قصابی بود کفاشی بود. کفاش و shoe maker باز ار آشنای مادر بزرگمه. یه relative خویشاوند دور. قرار بود یه کفش comfortable و راحت برای مادربزرگم بدوزه آخه نمیتونه مامان بزرگ هر کفشی رو بیوشه. کفش رو گرفتیم. رفتیم سمت مغازه .gold Smith طلا فروشی آقای سعیدی. دوست و فرند بابام. آخه برا birthday party آخر هفته، جشن تولد خواهرم مادربزرگم میخواست یه گیفت و هدیه بگیره برا خواهرم الناز الناز خيلي bracelet و النكو دوست داره. مغازه بر بود از ring و انگشتر Ear rings گوشواره ها و . necklaceگردنبند های قشنگ بعد کلی گشتن به bracelet خیلی خوشگل رو مامان بزرگ انتخاب کرد و آقای فرهادی انو گذاشت تو یه باکس و جعبه ی قشنگ. رنگش pink بود و یه ribbon سفید . من خیلی tired و خسته شده بودم اما مادر بزرگم هنوز کارش تموم نشده بود باید میرفتیم تعمیرگاه چون پنکه رومیزی مون رو داده بودیم برا Stand fan .repair ما مثل قبل درست و properly کار نمی کرد. از شانس ما بنکه ready نشده بود ، آماده نشده بود چون یه قطعه و segment اون خراب بود و نیاز به تعویض و exchange داشت Order .داده بود آقای تعمیرکار و repairman اما تاخیر داشت. یه delay عجیب. بعد پنج روز هنوز نرسیده بود Repairman .گفت تا رسيد قطعه سريع درست ميكنه برامون. تو دلم گفت ديگه الان ميريم خونه حتما. خوشحال شدم كلي. اماً مادربز رگم گفت سیروس جون یاشو بریم یه جا دیگه مونده : مغازه لیلا خانم که شاید میشه گفت یه خرازی بود یه .haberdashery بخرازی البته فکر کنم بهتره به اسم دیگه روش گذاشت. نمیدونم اوف. یعنی الان دوساعت اونجا كار مادربزرگم طول ميكشيد حداقل .at least two hours :ميدونيدwhy ؟ چون كه تو اون store و فروشگاه همه چی پیدا میشد: لباس زنانه, women's wares اوازم آرایش cosmetics, kitchen wares و لوازم آشیزخانه. مثل تابه و پن بشقاب و plate انواع چاقو و . knife کلی هم قاشق و چنگال fork و .knife یعنی کلٰی قفسه و shelf اونجا بود پر از وسیله. اسم فروشگاه رو میدونید چی گداشته لیلا خانم: جعبه جادو ... خخخ. واقعا مثل magic boxبود : همه چی از توش درمیومد. کلی معطل شدم اما آخرش surprise شدم واقعا غافل گیر: مامان بزرگ یواشکی یه جعبه color pencils خرید از لیلا خانم و داد تو راه بهم: یه جعبه مداد رنگی بیست و چهار تایی. **Appendix 3**

Session 5

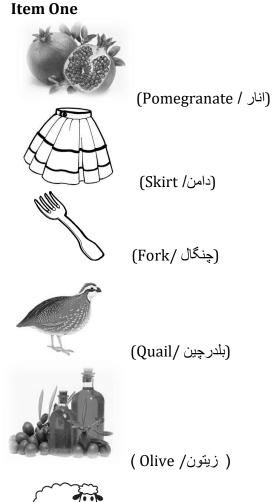
Donkeyدانكي، الاغ مارمولك Lizard رو زمین flee، کک گاو cow و. xo خوشگل گوسفند، شتر camel ، Sheep تو قفس falcon, cage باز Goat بز و boar و گراز پرنده پس فراوون پر ها، feathersگوناکون طوطى parrot، اردك duck Goose غاز و طاووس Goose خروس cock ، جوجه Chicken همين طور م مرغ و hen همچنين storkو لک لک برا شکار تو آب تک تک اون جا يهhawk يه شاهين Eagle عقاب تيز بين یر از pigeonکبوتر Hoopoeو شانه به سر کنار این حبیون ها یهpoolیه بود حوضی زیبا توش پر آب و water ماهی ها و fishنادر Frog,قورباغه و هشت یا Octopus ، نه یکی چند تا Shrimpو میگو، فک و seal Crocodile، همون کور کدیل کوسه و sharkو نهنگ Wale و Wale و خرجنگ Oysterصدف، مارماهی پر eel ، په جا گاه گاهي اين همه حييون good حيوون خوب تو _{ZO0}بود لذت برديم از تماشا Enjoy از watchکردن ما اما خوش تره animalآزاد فری تو جانگل و جنگل شاد یا happy تو seaو دریا خوشحال marines ، أبزي ها

Session 6

یاد summer های زمان بچگی بخیر. اون تابستون ها همش با بابا بزرگم تفریح میکردیم. اون عاشق fishing و ماهیگیری بود. چند تا قلاب و hook عالی هم داشت. روزی دو سه ساعت با هم میرفتیم اون آبگیر و pond نزدیک شهر. دور تا دورش reeds بود و یه عالمه lotus و نیلوفر هم رو آب بود. قوها و swans هم که زیاد بودند اونجا . مرغ ماهی خوار و pelican هم تو چندین. flock دسته دسته . همیشه برا طعمه و bait قبل ماهیگیری با پدربزرگم worm جمع میکردیم. ماهی ها عاشق کرم خاکی اند. پدربزرگم تمام ماهی ها رو می شناخت: قزل آلا .tout کپور و .aud ماهی خوار و pelican هم تو چندین. flock دسته دسته . همیشه برا طعمه و bait قبل مهیگیری با پدربزرگم worm جمع میکردیم. ماهی ها عاشق کرم خاکی اند. پدربزرگم تمام ماهی ها رو می شناخت: قزل آلا .tout کپور و .aud اردک ماهی و .aud همیشه موقع ماهیگیری باید ساکت بودیم و silent که ماهی ها ور هر چند دقیقه چند تا butterfly اردک ماهی و .eud می میرفت سرمو گرم میکردم با نگاه کردم به این ور و اون ور هر چند دقیقه چند تا butterfly و پروانه می اومد سمت من flog او سنجاقک هم که خیلی زیاد بود . اون طرف pod یه forest برد تا یکی و .eud و .span او .cud و .cud اون طرف bard یا درختا کلی پرنده می او .cud و .cud می میکردم .cud و معاتند و معرب و quail و بلدرچین معلوم بود. آخه اونا دائم دنبال ant و مورچه، کرم و worm هستند . عاشق سوسک و quaid مه هستند. اگه پیدا centipede و reacting یعنی هزار پا و ملخ هم می خورند. رو یه درخت خیلی بلند هم یه hive و کدو بود. فکر کنم بخاطر flowers و گل های خوشبو کلی زنبور عسل و bee اون اطراف بود. حیوون های دیگه ای هم بودن اون اطراف. مثل سنجاب و squirrel که هی از این درخت به اون bee می پریدند. فکر کنم بخاطر مورچه های فراوون rateate و مورچه خوار هم داشت . یه روز چند تا بچه آهو و fawn می پریدند. فکر کنم بخاطر مورچه های فراوون anteater و مورچه خوار هم داشت . یه روز چند تا بچه آهو و fawn هم دیدم که لای درختا بازی می کردند . وای یادش بخیر دم غروب و dusk قبل برگشت صدای frog ها و قورباغه بلند می شد. خفاش ها و tab ها هم پیداشون می شد. البته از همه بیشتر صدای crickets و جیرجیرک ها میومد. وای کلی omosquito و پشه هم از راه می رسیدند یهو .این ها همه مثل نشونه بود که یعنی دیگه باید برگردیم . میومد. وای کلی omosquito و خونه کلی با پدربزرگم حرف می زدیم در مورد است هایی که اون روز دیده بودم . عجب میومد وای کلی omosquito های شروز . دار مان روز : خاطرات هایی که اون روز دیده بودم. عجب تابستون هایی بود: واقعا memory های شروز . دارم از اون روز : خاطرات sweet یادش می بخیر !

Appendix 4

Sample Test



(گوسفند / Sheep)

Item Two

دیروز مادرم گفت برو قصابی یک کیلو گوشت ----- (meat) بخر . من رفتم . تو راه برگشت جلو یه مغازه چند تا chicken ----- (جوجه) دیدم. دلم خواست بخرم. اما یادم اومد پول ندارم زیاد. چون مادر زنگ زد گفت سر راه داری میای از خوار و بارفردشی flour ----- (آرد) بخر. چون خودم وقت ندارم باید نسخه رو ببرم داروخانه قرص ----- (pill) بگیرم برا مادر بزرگت که حالش خوب نیست. مادر بزرگ خوبم درمان ----- (cure) میشی ان شاالله که diagnosis ------ (تشخیص) پزشکت واقعا خوبه ماشااالله