





STATE ROUND

Problem set (2 hours)

YOU ARE ONLY ALLOWED TO WORK ON THE PROBLEM SET IN TWO HOURS.
RETURN IT TO THE FACILITATOR AT THE END OF THE CONTEST TIME.

The beautiful corn grew.



kalakwa: kwi: li:?

(A) Lalana Chinantec

Lalana Chinantec is a language spoken by approximately 10,000 people who live in the Oaxaca region of Mexico. In the following orthography a colon (:) marks a long vowel, and the ? symbol marks a glottal stop (like the sound in the middle of uh-oh).

mɨladʒö mo:h kya li: ʔ kalane kwɨ: kwa: kya dʒö kalaro:h mo:h ne kya kaladʒö kwɨ: mɨlakwa: kwɨ:			My pineapples have turned out well. My tall corn yellowed beautifully. My yellow pineapples ripened well. The corn turned out well. The corn has grown.		
A1.	What does the word li:? mean?				
A2.	What d	oes the word ro:h mean?			
A3.	A3. Translate the following sentences into Lalana Chinantec:				
	(i)	The good pineapples beca	ame beautiful.		
	(ii)	My ripe corn has yellowe	d well.		
A4. Translate the following sentences into English:					
	(i)	mɨlaro:h kwɨ: ne			
	(ii)	li:? kalakwa: kwɨ:			

OzCLO2008

REGISTRATION #:

(B) Luiseño

Luiseño is a highly endangered language of southern California that is a member of the Uto -Aztecan language family. While it has an ethnic population of around 2,000, Luiseño is only spoken by 30 to 40 people.

An asterisk (*) at the beginning of a sentence indicates that it is not grammatical.

In the following orthography \S represents a retroflexed 's' sound , which is made with the tongue further back in the mouth; \S represents the 'ch' sound, as in *chin*; and ? marks a glottal stop, which is like the sound in the middle of uh-oh.

1. hengeemal naqmaq

2. nawitmal maamayuq

3. ?awaalum wa?iwun

4. hengeemalum naqmawun

5. hunwut xaariq

6. wunaal naqmaq

7. ?awaalum xaariwun

8. paa?ila heyiq

9. paa?ilam heyiwun

10. hunwutum neqpiwun

11. muutam naqmawun

12. muuta kasillay noonomig

13. ?awaal paa?ilay neqpiq

14. hengeemal nawitmali čaqalaqiq

15. nawitmal hengeemali čaqalaqiq

16. kaşilla ?awaali toowq

17. kaşillam muutay kwa?wun

18. wunaalum muutami moyooniwun

19. ?awaali kasilla toowg

20. kaşilla toowq ?awaali

21. ?awaali toowq kaşilla

22. * toowq kaşilla ?awaali

23. * toowq ?awaali kasilla

The boy is listening.

The girl is helping.

The dogs are barking.

The boys are listening.

The bear is growling.

S/he is listening.

The dogs are growling.

The turtle is digging.

The turtles are digging.

The bears are fighting.

The owls are listening.

The owl is following the lizard.

The dog is fighting the turtle.

The boy is tickling the girl.

The girl is tickling the boy.

The lizard sees the dog.

The lizards are eating the owl.

They are feeding the owls.

The lizard sees the dog.

The lizard sees the dog.

The lizard sees the dog.



B1 Nouns in Luiseño

a. Fill in the spaces below with the correct forms:

bears

turtle

muuta

kaṣillam

b. What endings are used to mark nouns as plural?

c. What would be the plural of *?ahiiču* 'orphan'?

d. Briefly explain how you can predict which ending will occur with a particular noun.

B2. More Endings in Luiseño

a. What does the ending -q mean?

b. What does the ending *-wan* mean?

c. What do the endings -y and -i mean?

d. Briefly explain how you can predict whether -y or -i will occur.

B3. Word Order in Luiseño

a. On the basis of these examples, what is the usual word order in Luiseño sentences?

b. Luiseño also allows some freedom in word order. Briefly describe which variations in word order are acceptable and which are not.



B4. Speaking Luiseño

b. Give two additional sentences in Luiseño that you predict will be grammatical.

c. Give two more you predict will be ungrammatical.

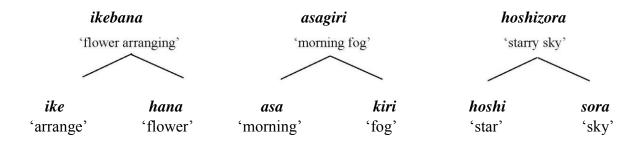
a. How would you say 'The dog is eating the lizards' in Luiseño?

d. Briefly state why the ungrammatical ones are incorrect.

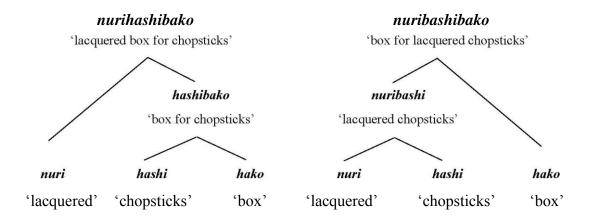


(C) Fakepapershelfmaker

In English, we can combine two nouns to get a compound noun, such as in 'mailbox' or 'sandcastle'. We can do this in Japanese as well, but just sticking the two words together isn't enough. Instead, the words themselves undergo predictable changes:



Compound words can then be compounded again, creating compounds with three or more members. Study the diagrams below carefully. You'll notice that the order in which the compound is built affects both the meaning and the final form of the word.



C1. The following is a list of several Japanese words with their English meanings. Use this word bank to write definitions of the Japanese compounds (a)-(f). Be very specific with how you phrase your definition. If your definition is ambiguous (has two meanings), it will not be counted.

sakura	cherry blossom	kami	paper	nise	fake
shiru	soup	tana	shelf	tsukuri	maker
iro	color(ed)	tanuki	raccoon	hako	box



(a) nisetanukijiru	
(b) nisedanukijiru	
(c) irogamibako	
(d) irokamibako	
(e) nisezakuradana	
(f) nisesakuradana	

C2. Match the following four-member Japanese compound words on the left with their English meanings on the right. (Some will require you to stretch your imagination a bit!) One of the Japanese words will correspond to two possible English meanings.

(1) a fake (fraudulent) shelfmaker made of paper	(A) nisegamidanadzukuri
(2) a maker of fake shelves for paper	(B) nisekamitanadzukuri
(3) a fake (fraudulent) maker of shelves for paper	(C) nisegamitanadzukuri
(4) a shelfmaker made of fake paper	(D) nisekamidanadzukuri
(5) a maker of shelves for fake paper	

C3. Explain your answers to C1 and C2 in the space provided below.



(D)Thorny Stems

Wouldn't it be nice if your computer could understand English? In this problem, you will write down a small set of rules encoding one piece of your knowledge about English.

The problem you will approach is called "stemming." You know that "work", "working", "works", and "worked" are all forms of the same verb: "work". Similarly, "guesses" and "guess" are both forms of the same noun: "guess". Below you will find a list of pairs of a word and its stem, both nouns and verbs. Your goal is to write down a list of rules which is as short as possible, but covers all of the example pairs. You must also list exactly **one** exception for every rule which has one.

Example

Rule 1: **If** a word ends in <u>ss</u>, **then** replace <u>ss</u> with <u>ss</u> to form the stem.

Rule 2: **If** a word ends in s, **then** replace s with to form the stem.

Rule 3: **Otherwise** the word is its own stem.

Let's look at how these rules will apply to a few examples. We always use only the first numbered rule that applies. For the word "work", Rules 1-2 do not apply, so we are left with Rule 3, "work" is its own stem. For the word "works", Rule 1 does not apply, but Rule 2 does, so the stem of "works" is formed by replacing the final "s" with nothing - i.e. deleting it, to form "work". Finally, for the word "grass", Rule 1 does apply, and so we replace "ss" with "ss", i.e. the word is unchanged and then we stop.

Your goal is to write one list of rules which will apply to both the nouns and the verbs listed on the next page.

Exceptions

The rules you write will not always work. Any word for which your rules give the wrong stem is called an "exception". You will write down exceptions for your rules - an exception is written next to the first rule whose "if" part applies to it. For example, "guess" is not an exception to the rules above, since even though Rule 2 does not handle it, Rule 1 (which comes first) does. However, "cries" is an exception (these rules gives its stem as "crie" instead of "cry"), and it should be written next to Rule 2 as follows:

If a word ends in <u>ss</u>, then replace <u>ss</u> with <u>ss</u> to form the stem. Exception: <u>-none-</u>
If a word ends in <u>s</u>, then replace <u>s</u> with <u>____</u> to form the stem. Exception: <u>cries</u>



Judging

Your score will be determined according to the following criteria:

You should have rules to cover all the words in the list below.

You should use as few rules as you can.

You should list an exception next to as many rules as you can.

Words and stems

NOUNS

word	stem	
backs	back	
books	book	
chiefs	chief	
companies	company	
duties	duty	
dwarves	dwarf	
grass	grass	
moss	moss	
potatoes	potato	
presidents	president	
roses	rose	
shelves	shelf	
stores	store	
stapler	stapler	
times	time	
toe	toe	
tomatoes	tomato	
wives	wife	

VERBS

word	stem
cried	cry
cries	cry
dished	dish
flies	fly
married	marry
killed	kill
listened	listen
ordered	order
resorts	resort
sailing	sail
tailing	tail
tell	tell



D1. Your rules

You do not need to use all the blank rules below. Cross out any rules you do not use.

1.	If a word ends in	, then replace	with	to form the stem.
	Exception:			
2.	If a word ends in	, then replace	with	to form the stem.
	Exception:			
3.	If a word ends in	, then replace	with	to form the stem.
	Exception:			
4.	If a word ends in	, then replace	with	to form the stem.
	Exception:			
5.	If a word ends in	, then replace	with	to form the stem.
	Exception:			
6.	If a word ends in	, then replace	with	to form the stem.
	Exception:			
7.	If a word ends in	, then replace	with	to form the stem.
	Exception:			
8.	If a word ends in	, then replace	with	to form the stem.
	Exception:			
9.	If a word ends in	, then replace	with	to form the stem.
	Exception:			
10.	If a word ends in	, then replace	with	to form the stem.
	Exception:			
11	Otherwise the wor	d is its own stem		

11. Otherwise the word is its own stem

D2. Explain your reasoning in the space below.



(E)The Curragh of Kildare

And straight I will repair
To the Curragh of Kildare
For it's there I'll find tidings of my dear
[Irish Folk Song]

In Ireland, each place name has two versions with equal legal status – an English one and an Irish one. Below are some place-names in their two versions and translations of the Irish ones.

	English	Irish	Translation of Irish name
1	Glenamuckaduff	Gleann na Muice Duibhe	Valley of the Black Pig
2	Clonamully	Cluain an Mhullaigh	Meadow of the Summit
3	Buncurry	Bun an Churraigh	Base of the Marsh
4	Curraghmore	An Currach Mór	The Big Marsh
5	Annaghanoon	Eanach an Uain	Fen of the Lamb
6	Dunard	An Dún Ard	The High Fort
7	Bunagortbaun	Bun an Ghoirt Bháin	Base of the White Field
8	Gortnakilly	Gort na Cille	Field of the Church
9	Binbane	An Bhinn Bhán	The White Peak
10	Ballyknock	Baile an Chnoic	Town of the Hill
11	Ballynaparka	Baile na Páirce	Town of the Park
12	Kilcarn	Cill an Chairn	Church of the Mound
13	Killeshil	An Choill Íseal	The Low Wood
14	Clashbane	An Chlais Bhán	The White Pit
15	Bunbeg	An Bun Beag	The Small Base

Sometimes the English name is no more than a translation of the Irish one:

16	Blackabbey	An Mhainistir Dhubh
17	Bigpark	An Pháirc Mhór
18	Castlepark	Páirc an Chaisleáin
19	Woodland	Talamh na Coille



E1. What would the Irish names of the following towns and villages be? Provide a translation for each one. If you think more than one Irish name could correspond to a given English name, give all of them:

	English	Irish	Translation of Irish name
20	Mullaghbane		
21	Killananny		
22	Knocknakillardy		
23	Gortnabinna		
24	Clashgortmore		
25	Killbeg		
26	Blackcastle		Black castle

E2. Explain your reasoning and provide any additional observations about this problem.