




NACLO

The North American Computational Linguistics Olympiad



WHAT is it?

- A language-learning, code-breaking, puzzle-solving contest!
 - Open to anyone not in college yet
 - 3 hours to solve puzzles as best you can
 - Prizes:
 - Best solution awarded for each puzzle
 - Top competitors get to compete in the linguistics Olympiad, held in cool international locations!
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(20 points)

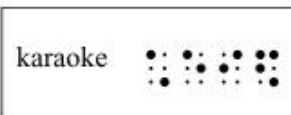
(A) Tenji karaoke (1/1)

Braille is a tactile writing system, based on a series of raised dots, that is widely used by the blind. It was invented in 1821 by Louis Braille to write French, but has since been adapted to many other languages.



English, which uses the Roman alphabet just as French does, required very little adaptation, but languages that do not use the Roman alphabet, such as Japanese, Korean, or Chinese, are often organized in a very different manner!

To the right is a Japanese word written in the *tenji* ("dot characters") writing system. The large dots represent the raised bumps; the tiny dots represent empty positions.



A1. The following *tenji* words represent *atari*, *haiku*, *katana*, *kimono*, *koi*, and *sake*. Which is which? You don't need to know either Japanese or Braille to figure it out; you'll find that the system is highly logical.

a. _____	b. _____
c. _____	d. _____
e. _____	f. _____

A2. What are the following words?

g. _____	h. _____
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A3. Write the following words in *tenji* characters. Please write very legibly!!

i. samurai	j. miso
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YOUR NAME:

REGISTRATION #:

(20 points)

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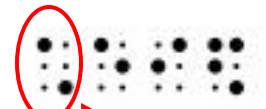
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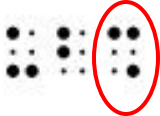
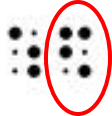

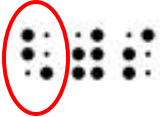
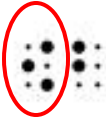

karaoke

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a. <u> </u> haiku 	b. <u> </u> sake 
c. <u> </u> katana 	d. <u> </u> kimono 
e. <u> </u> koi 	f. <u> </u> atari 

A2. What are the following words?

g. <u> </u> 	h. <u> </u> 
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A2. What are the following words?

g. <u>karate</u> 	h. <u>anime</u> 
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i. samurai 	j. miso 
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- NACLO : Open Round
 - January 30th
 - Open to everybody
 - CMU or your HS
- NACLO : Invitational
 - March 13th
 - Invitation only
 - CMU or your HS
- IOL final round
 - Top competitors
 - Beijing, China!



<http://www.naclo.cs.cmu.edu/practice.html>