

(14) Fakepapershelfmaker (1/2)

- 14.1. (a) *nisetanukijiru* fake soup made out of raccoons
 (b) *nisedanukijiru* soup made out of fake raccoons
 (c) *irogamibako* box for colored paper
 (d) *irokamibako* colored box for paper
 (e) *nisezakuradana* shelf for fake cherry blossoms
 (f) *nisesakuradana* fake shelf for cherry blossoms

- 14.2. (1) a fake shelf-maker made of paper B: *nisekamitanadzukuri*
 (2) a maker of fake shelves for paper D: *nisekamidanadzukuri*
 (3) a fake maker of shelves for paper D: *nisekamidanadzukuri*
 (4) a shelf-maker made of fake paper C: *nisegamitanadzukuri*
 (5) a maker of shelves for fake paper A: *nisegamidanadzukuri*

14.3. When we compound two Japanese words, the first word modifies/describes the second. For example, adding *hashi* before *hako* makes a word meaning a box (*hako*) for chopsticks (*hashi*). As another example, adding *nuri* before *hashi* makes a word meaning chopsticks (*hashi*) that are lacquered (*nuri*).

Every simple (non-compound) word has two forms: the basic form, used when it occurs alone, and the variant form, sometimes used in compound words.

| Basic | Variant | Basic | Variant |
|---------------|----------------------|----------------|-----------------------|
| <i>hako</i> | <i><u>b</u>ako</i> | <i>shiru</i> | <i>ji<u>r</u>u</i> |
| <i>hana</i> | <i><u>b</u>ana</i> | <i>Sora</i> | <i>zo<u>r</u>a</i> |
| <i>hashi</i> | <i><u>B</u>ashi</i> | <i>tana</i> | <i>da<u>n</u>a</i> |
| <i>kami</i> | <i>ga<u>m</u>i</i> | <i>tanuki</i> | <i>da<u>n</u>uki</i> |
| <i>kiri</i> | <i>gi<u>r</u>i</i> | <i>tsukuri</i> | <i>dz<u>u</u>kuri</i> |
| <i>sakura</i> | <i>za<u>k</u>ura</i> | | |

The variant form has a different first letter, which depends on the first letter in the basic form. Specifically, we replace the initial *h* with *b*, initial *k* with *g*, initial *s* with *z*, initial *sh* with *j*, initial *t* with *d*, and initial *ts* with *dz*. As a side note, some letters do not require replacement, but they do not occur in the problem.

We next deduce rules for compounding simple words; we denote basic forms by *a*, *b*, *c*, and *d*, and respective variants by *a*, *b*, *c*, and *d*. We first notice that two-member compounds have the following structure:

$$a + b \rightarrow ab$$

Three-member compounds have two different structures, which depend on their meaning. If we first form a

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word containing *a* and *b*, and then compound it with *c*, we use the following structure:

$$(a + b) + c \rightarrow \underline{ab} + c \rightarrow \underline{abc}$$

If we first compound *b* and *c*, and then add *a*, we use a different structure:

$$a + (b + c) \rightarrow a + \underline{bc} \rightarrow \underline{abc}$$

Thus, when we combine two (simple or compound) words into a larger compound word, we use the following rules:

- We use the original form of the first word.
- If the second word is simple (noncompound), we use its variant form.
- If the second word is compound, we do not change it.

When compounding four simple words, we can get five different internal structures; two of them give the same result, which is why the four compounds in part 2 correspond to five possible meanings.

We can now determine which English version corresponds to what structure.

(1) a fake shelf-maker made of paper

- fake + (paper + (shelf + maker))
- a + (b + (c + d))
- a + (b + cd)
- a + bcd
- abcd
- *nise-kami-tana-dzukiri* (B)

(2) a maker of fake shelves for paper

- (fake + (paper + shelf)) + maker
- (a + (b + c)) + d
- (a + bc) + d
- abc + d
- abcd
- *nise-kami-dana-dzukuri* (D)

(3) a fake maker of shelves for paper

- fake + ((paper + shelf) + maker)
- a + ((b + c) + d)
- a + (bc + d)
- a + bcd
- abcd
- *nise-kami-dana-dzukuri* (D)

(4) a shelf-maker made of fake paper

- (a + b) + (c + d)
- ab + cd
- abcd
- *nise-gami-tana-dzukuri* (C)

(5) a maker of shelves for fake paper

- ((a + b) + c) + d
- (ab + c) + d
- (abc) + d
- abcd
- *nise-gami-dana-dzukuri* (A)

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