

DWITE '11 R3 #1 - Weighted Presents

Time limit: 2.0s **Memory limit:** 64M

DWITE, December 2011, Problem 1

This **non-discriminatory year-end holiday season** you have received a present. It has to stay neatly wrapped for some time, but you want to know what it is **now**. Estimating the weight of the package, and the weights of possible presents, pick the closest match.

The input will contain 5 test cases, each 5 lines long. The first line will be an integer value, the weight of the package. The following 4 lines will contain possible choices, each in the form: `name weight`, where `name` is a single word and `weight` is an integer weight for this choice.

The output will contain 5 lines of output, each name of the closest guess out of the choices. If two items tie, then answer with the heavier of the two.

Sample Input

```
-2
helium -3
air 0
socks 1
brick 10
4
brick 10
books 7
socks 1
air 0
```

Sample Output

```
helium
books
```

Problem Resource: [DWITE](#)