POTD48.1. Problem of the Day #48

Download and Extract

An initial setup of files is provided to you via a shell script: Download potd-q48

Using a terminal, extract the initial files by running the shell script you just downloaded (you will need to navigate to the directory where you saved the file):

```
sh potd-q48.sh
```

Your files for this problem will be in the `potd-q48` directory.

The Problem

Based on UVA Online Judge Problem #11608.

Programming contests are being arranged so frequently these days. While this might be a good news for the contestants, the scenario is completely opposite for the problemsetters. So far, the problemsetters somehow managed to produce enough and say "No problem!". But it is doubtful how long will it be possible if the trend of arranging contests on short notice continues.

You are given the number of problems created in every month of a year and number of problems required in each month. If N problems are required in a month and there are not enough problems at that time, all contests that month are canceled. Write a program to determine if there are enough problems for the contests. Please keep in mind that if a problem is created in month X, it can only be used in month $X + 1$ and later months.

Your work

Write a function `vector<string> noProblem(int start, vector<int> created, vector<int> needed)`. Variable `start` contains the number of problems ready at the beginning of the year. Vector `created` denotes the number of problems created in each of the 12 months of that year. Vector `needed` denotes the number of problems required for use in contests in those 12 months.

Output a vector showing for each month if there are enough problems. If there are enough problems for a month, set the value to `No problem! :D`. If there are not enough problems for the month, set it to `No problem. :(`.

Example

For this input:

```
start = 5
created = {3, 0, 3, 5, 8, 2, 1, 0, 3, 5, 6, 9}
needed  = {0, 0, 10, 2, 6, 4, 1, 0, 1, 1, 2, 2}
```

The result would be:

POTD 48

Total points: 0/1

Score: 0%

Question

Value: 1

History:

Awarded points: 0/1

Report an error in this question

Previous question

Next question

```
No problem! :D
No problem! :D
No problem. :(
No problem! :D
No problem! :D
No problem! :D
No problem! :D
No problem! :D
No problem! :D
No problem! :D
No problem! :D
No problem! :D
```

Upload Solution

Drop files here or click to upload.

Only the files listed below will be accepted—others will be ignored.

Files

Save & Grade | Save only

NoProblem.cpp

not uploaded