

APCS

Due 3/31/15

7- Golf
Input File: GolfIn.txt

Logan is a very good golfer who always hits the ball in a straight line directly at the hole. When struck, the ball always travels the exact distance that is associated with the club he used. Logan never selects a club that will cause the ball to go beyond the hole. Your task is to determine the minimum number of strokes Logan will take to complete each hole of his golf round, given the distances associated with each club in his bag, and the distance from the tee box (starting point) to the hole. Any club can be used more than once to complete a golf hole.

Inputs:

The first line of input contains the number of golf holes to consider. This will be followed by two lines of input per hole. The first line will contain two integers: the distance to the hole and the number of clubs in the golf bag Logan will carry with him on that hole. The second line will contain the distance associated with each club in the bag. All inputs on a line will be separated by a space.

Outputs:

There will be one line of output per hole, which will contain either the *minimum* number of strokes Logan will take to advance the ball the exact distance to the hole, or the phrase *No can do* if the clubs in his bag can not be used to complete the hole. Remember, Logan will never hit the ball beyond the hole.

Sample inputs

```
4
70 3
25 30 10
321 6
25 50 10 15 90 200
320 6
25 50 10 15 90 200
230 3
25 30 10
```

Sample output

```
3
No can do
4
8
```

You must use textfiles

March
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