CSDC101.ZC11 Fundamentals of Computing
Laboratory Exercise 2

PERFECT SCORE: 10/10

PROBLEMS

1) **Positive, Negative, Zero v2** (3 points)

Widget needs help in determining whether the numbers given to her by a friend are positive, negative, or zero. You offered to help by writing a program that will do the task for her.

INPUT FORMAT
The input consists of an arbitrary list of integers, each separated by a single space. The values of the integers are between -1000 to 1000. The input is terminated by 1001.

OUTPUT FORMAT
For each integer in the input, display whether the value is positive, negative, or zero. Separate each with a newline.

SAMPLE INPUT
```
0 92 -897 238 -78 1001
```

SAMPLE OUTPUT
```
zero
positive
negative
positive
negative
```

2) **Drawing Characters** (3 points)

Annie is trying to draw character lines that she would like to use as decorations in her text messages to her friends. She has a list of integer and character pairs that she uses as basis for drawing out the lines.

Write a program that will help her accomplish the task more quickly.

INPUT FORMAT
The input begins with an integer **N** indicating the number of integer and character pairs that follows. The succeeding lines are **N** pairs of an integer **t** and a character **ch**, where **t** denotes how many **ch** characters should be printed to create the line. The **t** and **ch** pairs are separated by a space. Character **ch** could be any of the following characters: *****, **#**, **@**

OUTPUT FORMAT

For each **t** and **ch** pair, print **t** number of **ch** character/s with no spaces in between. Drawn lines for each pair must be in its own line in the output. If **ch** is not among the acceptable characters, print "Cannot draw!" without the quotation marks.

CONSTRAINTS

```
1 <= N <= 100
1 <= T <= 100
ch can be any of the following: *, #, @
```

SAMPLE INPUT

```
3
5 *
10 @
15 #
```

SAMPLE OUTPUT

```
*****
@@@@@@@@@@
###############
```

3) **Min-Max-Sum** (4 points)

Aubrey needs to find the smallest and largest values in a given list of numbers. Moreover, he needs to add them.

INPUT FORMAT

The input begins with an integer **N** indicating the number of lists in the input. The next lines are **N** lists. Each list begins with an integer **T** denoting how many integers **n** comprises the list. Assume the values in the list are unique.

OUTPUT FORMAT

For each list, output the minimum, the maximum, and their sum. Separate the values by a single space. Output for each list must be in its own line.

CONSTRAINTS

```
1 <= N <= 100
1 < T <= 100
-100 <= n <= 100
```

SAMPLE INPUT

```
2
4 5 3 7 8
5 38 79 53 41 36
```

SAMPLE OUTPUT

```
3 8 11
36 79 115
```