

Distribute T-Shirts in a Marathon

A marathon is being conducted by a NGO in Chennai. T-Shirts with the theme of the marathon and a number is given to the participants. The participants are given the T-Shirts in the order of their arrival and new T-Shirts are also continuously brought-in to the venue. T-Shirts are arranged one above the other vertically and they are distributed from top to bottom. Three operations are possible participant-entry, t-shirt-arrival and distribute t-shirt.

Participant-entry - Some 'p' number of participants are arrived and they are made to wait for t-shirt distribution.

T-shirt arrival – Some 'm' number of t-shirts are brought to the venue and arranged on a table. Always t-shirts arrived recently will be on the top

Distribute-t-shirt – Some 'k' number of t-shirts are distributed to 'k' participants, print name of the participant and t-shirt number

Given a sequence of operations performed, write a C++ code to carry out and print the details of t-shirts distributed to participants during distribute-t-shirt operation.

Illustration

If the input is

7

1

2

Name1 Name2

2

3 6 9 4

1

3 Name3 Name5 Name4

2

7 8 5 1 45 56 78 12

1

2 Name12 Name6

1

1 Name8

3

4

then the desired output is

Name1 12

Name2 78

Name3 56

Name5 45

Problem Statistics

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Solved By: 2

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Input Format

First line contains the number of operations, n

Details for 'n' operations are given. Code for operations, 1- Participant-entry, 2 - T-shirt arrival and 3 – Distribute-t-shirt

For option 1, next line will contain the number of participants entered currently, n, followed by 'n' names

For option 2, next line will contain the number of t-shirts arrived, m, followed by 'n' numbers written on the t-shirts

For option 3, next line contains the value of k

Output Format

For option 3, print the name and the t-shirt number given for the participant separated by a space

Theme: Terminal Language Python Font size: 18

```
1
13     participants = input().split()
14     participants_queue.extend(participants[1:])
15
16     elif choice==2:
17         m = list(map(int,input().split()))
18         t_shirts_queue.extend(m)
19
20     else:
21         k = int(input())
22         for x,y in zip(participants_queue,t_shirts_queue[:k]):
23             if k>0:
24                 print(x,y)
25                 k-=1
26     participants_queue = participants_queue[k:]
27
28
```

Use custom I/O

Run Code

Save Code

Pause Test

Status:

