

Ureckon International Coding Challenge (UICC)

Participation: Individual

UICC is Ureckon's flagship international event, pitting the best competitive programmers against each other in an epic battle of wits. Coding Contest consists of question related to logic, mathematics, data structures and algorithms.

Solve, Code and Win

About The Event

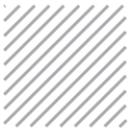
- It is an individual event
- Duration: 2:30 hrs
- Platform used: CodeChef
- Ranking mechanism used: ICPC style
- Contest Type : Open



Rules & Regulations:

- All the problems have same points allotted to them.
- Users are ranked according to the most problems solved. Ties will be broken by the total time for each user in ascending order of time
- The total time is the sum of the time consumed for each problem solved. The time consumed for a solved problem is the time elapsed from the beginning of the contest to the submission of the first accepted run plus 20 penalty minutes for every previously rejected run for that problem(Wrong answer, Time limit exceeded, Runtime Error). There is no time consumed for a problem that is not solved.
- The decision of the organizers in declaring the results will be final. No queries in this regard will be entertained.
- Any participant found to be indulging in any form of malpractice will be immediately disqualified.





Sample Problem Statement:

Back in Bombay in 1992, Sulaiman Isa's terror was spreading as his men take out rival gang members by the dozen. Now, Isa targeted **K** areas where he wanted his rule. He makes a team of **K** accomplices for the same.

Every day at 5 pm, Isa used to communicate with his accomplices and asked them about the progress they have made. Isa had given a "code" to all his accomplices for communication. Delighted by his accomplice's progress, he prepares dinner for them; **K** chairs, **K** plates, **K** forks and **K** knives for **K** hungry gangsters.

On the day of dinner, **N** ($N \geq K$) gangsters came, instead of **K** (nobody knows how or why), each of them claiming to be one of Isa's **K** accomplices. Luckily, each accomplice had a "code" (which Isa had given them). This "code" is a positive integer less than **S**. Isa, a famous mathematician, realised long ago that the sum of numbers on the "code" of his **K** accomplices was exactly **S**. You are manager of Isa and he has shared this information with you. Now, you have to decide which of the **K** gangsters are legit.

Write a program which determines which gangsters are legit...

Input Format:

N, **K** and **S** separated by a space

Next **N** lines of input contains an integer between 1 and 99 (inclusive). All of the numbers will be distinct.

Note: The test data will be such that the solution is unique.

Constraints:

$$N \leq 20$$

$$K \leq N$$

$$S \leq 10^6$$

All codes will be between 1 to 99 (inclusive)

Output Format:

Your program must produce exactly **K** lines of output – the "codes" of Isa's **K** gangsters. Output the numbers in ascending order.

Sample Input 1:

```
9 7 100
7
8
10
13
15
19
20
23
25
```



**Sample Output 1:**

7
8
10
13
19
20
23

Explanation:

Out of the given 9 values, only these 7 values sum up to form 100.

Solution:

```
from itertools import combinations
```

```
n, k, s = map(int, input().split())  
l = [int(input()) for _ in range(n)]
```

```
for i in combinations(l, k):  
    i = sorted(i)
```

```
    if sum(i) == s:  
        print(*i, sep = '\n')  
        break
```

**Regards,****Pratik Goel****([+91-9051481667](tel:+919051481667)) / (ipratikgoel@gmail.com)**

In case of any queries, email or WhatsApp on the above contact 😊

