ALCoding Challenge - Summer 2019

Jul 12, 2019, 11:30 AM EDT - Jul 12, 2019, 02:30 PM EDT

INSTRUCTIONS   **PROBLEMS**   **SUBMISSIONS**   **LEADERBOARD**   **ANALYTICS**   **JUDGE**

← Problems / Dream Team

Dream Team

Max. Marks: 100

> This problem is no longer available for practice. Apology for any inconvenience!

Given **N** remarkable cricket players with their skill levels and their price, select a team within a given budget and maximize the skill level of the team.

Input:-

First line contains **N,** the number of cricket players and **B,** the budget you have to build your team.

Next line has the skill levels **S,** of each N players where S_i denotes the skill level of the ith player.

Next line has the price **P,** of the each of the N players where P_i denotes the price of the ith player.

Output:-

Print all the players in your team.

eg:- Print 1 4 7, if your team as the 0th, 3rd and 6th player.

Maximize your teams skill level so you can win all matches.

Constraints:-

- $1 <= N <= 10^5$
- $1 <= skill\_level, price <= 10^9$
- $1 <= W <= 2 \times 10^9$

Note:-

- This is an NP-problem. Try to optimize it with your creativity.
- Maximize the skill level to have the best team amongst all participants of this contest.
- In case your output price exceeds the budget you will get a WA.
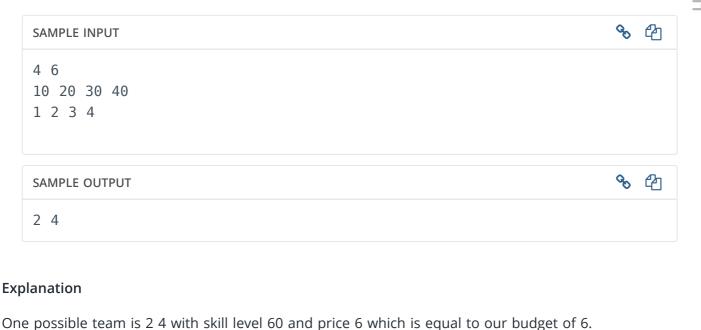- There is atleast one player within your budget.

SAMPLE INPUT

```
4 6
10 20 30 40
1 2 3 4
```

SAMPLE OUTPUT

```
2 4
```

Explanation

One possible team is 2 4 with skill level 60 and price 6 which is equal to our budget of 6.

Time Limit:	2.0 sec(s) for each input file.
Memory Limit:	256 MB
Source Limit:	1024 KB
Marking Scheme:	Marks are awarded if any testcase passes.
Allowed Languages:	C, C++, C++14, Java, Python, Python 3

CODE EDITOR

Enter your code or Upload your code as file.   Save   C (gcc 5.4.0) ▼

```c
1   /*
2   // Sample code to perform I/O:
3   #include <stdio.h>
4
5   int main(){
6       int num;
7       scanf("%d", &num);                      // Reading input from STDIN
8       printf("Input number is %d.\n", num);   // Writing output to STDOUT
9   }
10
11  // Warning: Printing unwanted or ill-formatted data to output will cause the test cases 1
12  */
13
14  // Write your code here
15
```

*9
1:1*

💡 *Press Ctrl/Command+Spacebar for autocomplete suggestions (accuracy dependent on connection stability).*

🔽 Provide custom input

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