

Activities

Firefox Web Browser

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Problems - Turvo Hiring Cha

May 26th and 27th - Mozilla Firefox

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Turvo Hiring Challenge - May 26th and 27th

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sudhithr@gmail.com

Help

End Test

2 Questions

Total Marks: 200.0

2 Programming Questions

1. The shopping problem

100.0

2. Free walk

100.0

The shopping problem

You are given the IDs and the prices of N items.

Write a program to find the maximum number of items that can be purchased with M coins. Display the list of IDs in an increasing order with all the items that you have purchased using M coins. If there are two items with the same price, buy the one with the greater ID number. If the item cannot be purchased with M coins, then print -1.

Input format

- First line: Two space-separated integers N and M
- Next N lines: Two space-separated integers denoting the price and the ID of the i^{th} item

Output format

Print the required answer.

Constraints

$1 \leq N \leq 10^5$
 $1 \leq M \leq 10^{14}$
 $1 \leq \text{Price} \leq 10^9$
 $1 \leq \text{Id} \leq 10^2$

Sample Input

4 5
2 5
3 4
5 3
6 2

Sample Output

4
5

Explanation

You will buy 2 items, one with id 4 and other with id 5 as sum of their prices is equal to 5.

Note: Your code should be able to convert the sample input into the sample output. However, this is not enough to pass the challenge, because the code will be run on multiple test cases. Therefore, your code must solve this problem statement.

Time Limit: 1.0 secs 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, C#, Java, JavaScript, Kotlin, Lua, Objective-C, OCaml, Octave, Pascal, Perl, PHP, Python, Python 3, Racket, Ruby, Rust, Scala, Swift, Swift-4.1, Visual Basic