



# Jim and the Orders

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Problem

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Jim's Burgers has  $n$  hungry burger fans waiting in line. Each unique order,  $i$ , is placed by a customer at time  $t_i$ , and the order takes  $d_i$  units of time to process.

Given the information for all  $n$  orders, can you find and print the order in which all  $n$  customers will receive their burgers? If two or more orders are fulfilled at the exact same time  $t$ , sort them by ascending order number.

## Input Format

The first line contains a single integer,  $n$ , denoting the number of orders.

Each of the  $n$  subsequent lines contains two space-separated integers describing the respective values of  $t_i$  and  $d_i$  for order  $i$ .

## Constraints

- $1 \leq n \leq 10^3$
- $1 \leq i \leq n$
- $1 \leq t_i, d_i \leq 10^6$

## Output Format

Print a single line of  $n$  space-separated order numbers (recall that orders are numbered from **1** to  $n$ ) describing the sequence in which the customers receive their burgers. If two or more customers receive their burgers at the same time, print the smallest order number first.

## Sample Input 0

```
3
1 3
2 3
3 3
```

## Sample Output 0

```
1 2 3
```

## Explanation 0

Jim has the following orders:

- $t_1 = 1, d_1 = 3$ . This order is fulfilled at time  $t = 1 + 3 = 4$ .
- $t_2 = 2, d_2 = 3$ . This order is fulfilled at time  $t = 2 + 3 = 5$ .
- $t_3 = 3, d_3 = 3$ . This order is fulfilled at time  $t = 3 + 3 = 6$ .

As you can see, order **1** was fulfilled at time  $t = 4$ , order **2** was fulfilled at time  $t = 5$ , and order **3** was fulfilled at time  $t = 6$ . Thus, we print the sequence of order numbers in the order in which they were fulfilled as `1 2 3`.

## Sample Input 1

```
5
8 1
4 2
5 6
3 1
4 3
```

### Sample Output 1

```
4 2 5 1 3
```

### Explanation 1

Jim has the following orders:

1.  $t_1 = 8, d_1 = 1$ . This order is fulfilled at time  $t = 8 + 1 = 9$ .
2.  $t_2 = 4, d_2 = 2$ . This order is fulfilled at time  $t = 4 + 2 = 6$ .
3.  $t_3 = 5, d_3 = 6$ . This order is fulfilled at time  $t = 5 + 6 = 11$ .
4.  $t_4 = 3, d_4 = 1$ . This order is fulfilled at time  $t = 3 + 1 = 4$ .
5.  $t_5 = 4, d_4 = 3$ . This order is fulfilled at time  $t = 4 + 3 = 7$ .

When we order these by ascending fulfillment time, we get:

- $t = 4$ : order 4.
- $t = 6$ : order 2.
- $t = 7$ : order 5.
- $t = 9$ : order 1.
- $t = 11$ : order 3.

We print the ordered numbers in the bulleted listed above as 4 2 5 1 3.

**Note:** While not demonstrated in these sample cases, recall that any orders fulfilled at the same time must be listed by ascending order number.

f t in

Submissions: [15547](#)


Max Score: 40

Difficulty: Easy

Rate This Challenge:

☆☆☆☆☆

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Current Buffer (saved locally, editable)  

Java 7



```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8
9     public static void main(String[] args) {
10         /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
11     }
12 }
```

Line: 1 Col: 1

 [Upload Code as File](#)☐ Test against custom input

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