

Tyrion loves wine and women. But too much wine can ruin his night... unless there are many women around him! He considers a night wonderful, if the wine/women ratio is at most 2, meaning that he has maximum two glasses of wine per each woman with him. For example a night with 5 glasses of wine and 2 women is not wonderful ( $5/2=2.5$  ( $5/2=2.5$  and  $2.5>2$ )), while a night with 2 glasses of wine and 3 women is wonderful ( $2/3=0.667$  ( $2/3=0.667$  and  $0.667\leq 2$ )). You are given Tyrion's wine consumption and the number of women with him for  $n$  nights. Can you tell which nights were wonderful for Tyrion?

### Input

The first line of the input contains  $n$  ( $1\leq n\leq 100$ ) – the number of nights. The following  $N$  lines describe a night. These lines contain two *positive* integers: how many glasses of wine he had ( $1\leq g_i\leq 100$ ) and how many women were with him ( $1\leq w_i\leq 100$ ).

### Output

The first line should contain a single integer  $k$  – the number of wonderful nights Tyrion had. On the second line print  $k$  numbers in increasing order separated by spaces, which are the indices of the wonderful nights of Tyrion. The indexing starts with 1. (Notice that  $k$  might be 0, then leave the second line empty.)

### Example

#### input

```
6
23 22
8 1
9 5
7 3
2 1
4 8
```

#### output

```
4
1 3 5 6
```

### Note

Explanation: there are 4 nights of Tyrion where the wine/women ratio is not more than 2: the 1st (23/22), 3rd (9/5), 5th (2/1), 6th (4/8). The others, 8/1 and 7/3 are greater than 2.