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Positive Integer Pairs

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Problem

Submissions

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Discussions

Write a program for the given integers P and X, that display the positive integer pairs (i, j) with satisfy the following conditions.

```
i + j == P
i XOR j == X
```

Input Format

first line is first Integer P second line is second Integer X

Constraints

None

Output Format

pairs of inetegrs i and j

Sample Input 0

```
100
4
```

Sample Output 0

```
48 52
```

Explanation 0

here value of P is 100
value of X is 4

```
48 + 52 = 100
48 ^ 52 = 4
```

Sample Input 1

```
4
4
```

Sample Output 1

```
0 4
```

[f](#) [t](#) [in](#)

Submissions: 203

Max Score: 10

Difficulty: Medium

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Python 3

```
1 P= int(input())
2 X= int(input())
3 i=1
4 j=1
5 for i in range (P+1):
6     for j in range (i+1):
7         if j==P-i and j^i==X:
8             print(j,i,end=" ")
9         i+=1
10        j+=1
```

Line: 10 Col: 9

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

Testcase 0

Testcase 1

Congratulations, you passed the sample test case.

Click the **Submit Code** button to run your code against all the test cases.

Input (stdin)

```
100
4
```

Your Output (stdout)

```
48 52
```

Expected Output

```
48 52
```