

Strange Pattern (Medium)

Mr. X has learned bitwise operators. With this ability, he once again wants to make a fibonacci function. Same as before, for $x=1$ and $x=2$ the function prints out 2 and 3 respectively. But the problem still occurs, every number after 2 also prints out 3.

Again, Mr. X given up on fixing the function and instead challenges you to recreate the function that he created. Since he wants to study more bitwise operators, he only wants you to do a **single** statement using only [bitwise operators](#). You can also use numbers and the letter 'x'.

Mr. X has given you his code for you to edit, but you can only edit a certain part of the code.

```
#include <stdio.h>

int count(int x){

    return edit this part,

}

int main(){for(int i=1;i^10001;i++)printf("%d %d\n",i,count(i));return 0;}
```

Mr. X will first check the correctness of the output. If the output is correct, he then will check the code. If there is anything that violates the rule above, the result will be "compilation error". Changing the code other than the allowed part may also result in a compile error.

DO NOT USE ANY WHITESPACE ON THE EDITED PART

Input

No input.

Output

```
1 2
2 3
3 3
4 3
... and so on ...
9998 3
9999 3
10000 3
```

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