

Aim:

Write a C program to check whether a given integer is in between two specified values, x (lower bound) and y (upper bound), inclusive.

Input Format:

- The first line contains an integer x — the lower bound.
- The second line contains an integer y — the upper bound.
- The third line contains an integer num — the number to check.

Output Format:

- If num is between x and y (inclusive), print:

num is in between x and y

- Otherwise, print:

num is not in between x and y

Replace num , x , and y with their actual values in the output.

Note: Some parts of the code are given, fill in the missing code.

Source Code:

between.c

```
#include <stdio.h>

int main() {
    int x, y, num;

    // Input the values of x, y, and num
    printf("lower bound(x): ");
    scanf("%d",&x);

    printf("upper bound(y): ");
    scanf("%d",&y);

    printf("number to check: ");
    scanf("%d",&num);

    // Check if num is between x and y
    if(num >=x && num <=y){
        printf("%d is in between %d and %d\n", num , x,y);
    }else{
        printf("%d is not in between %d and %d\n",num,x,y);
    }

    return 0;
}
```

```
}
```

Execution Results - All test cases have succeeded!

Test Case - 1

User Output

```
lower bound(x): 8
upper bound(y): 100
number to check: 16
16 is in between 8 and 100
```

Test Case - 2

User Output

```
lower bound(x): 1
upper bound(y): 15
number to check: 30
30 is not in between 1 and 15
```