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CMSC21-1

1. Code the following:

a. Prompt the user to enter a two-digit number

Programiz
C Online Compiler

main.c

Run

Output

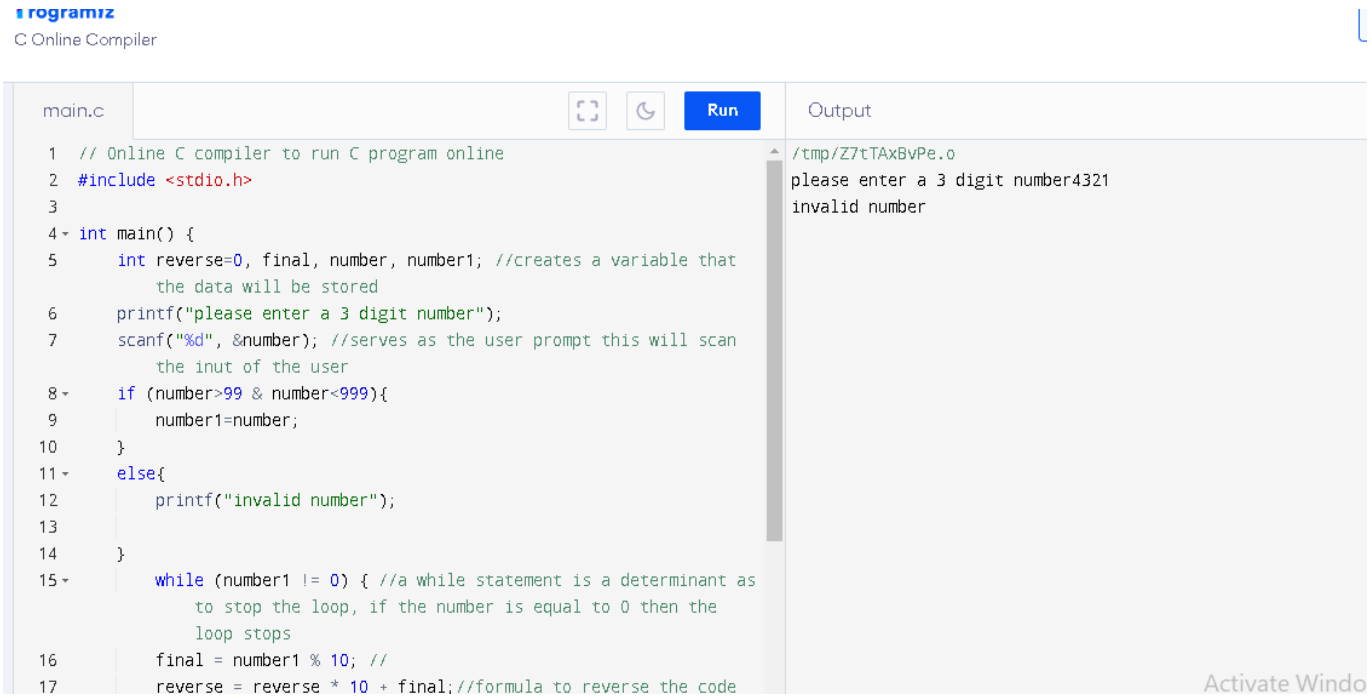
```c
// Online C compiler to run C program online
#include <stdio.h>

int main() {
    int reverse=0, final, number; //creates a variable that the data
        will be stored
    printf("Enter the number you want to reverse");
    scanf("%d", &number); //serves as the user prompt this will scan the
        inut of the user
    while (number != 0) { //a while statement is a determinant as to
        stop the loop, if the number is equal to 0 then the loop stops
    final = number % 10; //
    reverse = reverse * 10 + final;//formula to reverse the code
    number /= 10;
  }

  printf("Reversed number = %d", reverse);

  return 0;
}
```

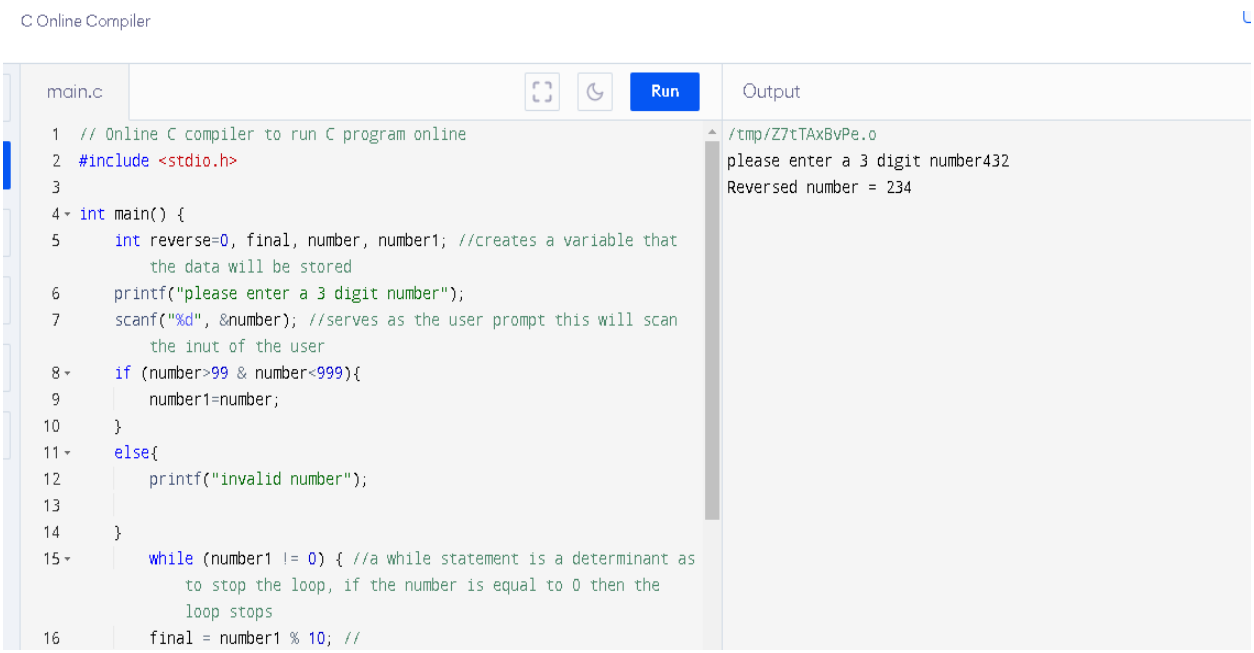
```
/tmp/Z7tTAxBvPe.o
Enter the number you want to reverse321
Reversed number = 123
```

Activate Windo

b. Display the number with the digits reversed

2. Extend the code in item 1, such that it reverses a 3-digit number.

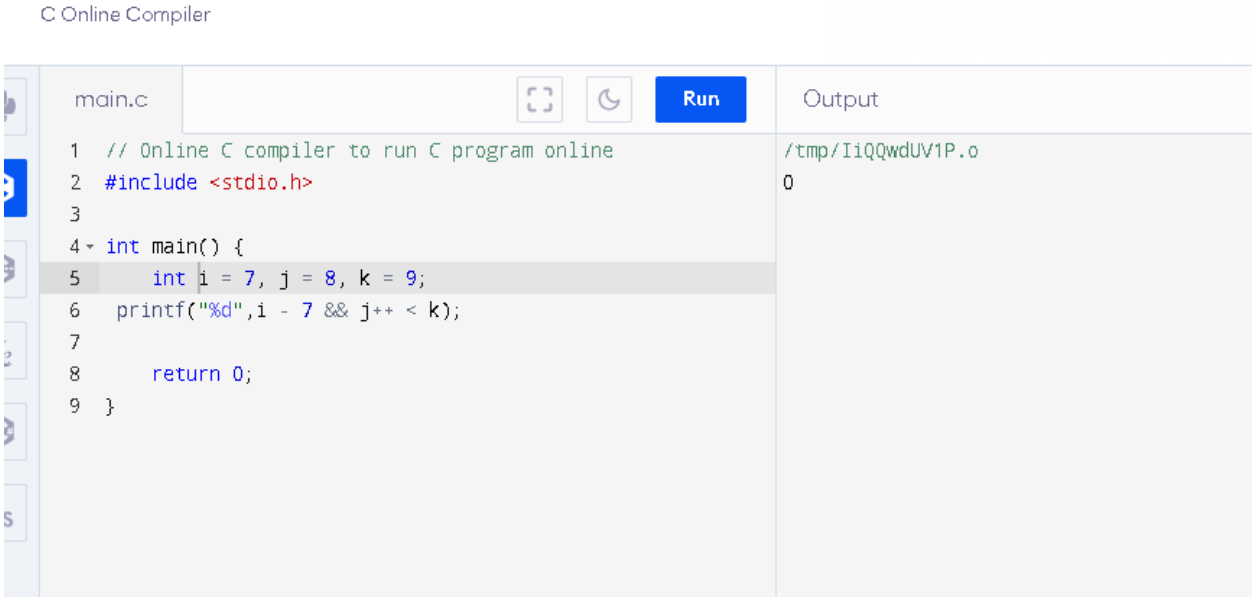




3. Provide the output of the following codes, given that i, j, and k are integer variables.
a) i = 3; j = 4; k = 5;
printf("%d", i < j || ++j < k);
b) i = 7; j = 8; k = 9;
printf("%d",i - 7 && j++ < k);
c) i = 7; j = 8; k = 9;
printf("%d", (i = j) || (j == k)); printf("%d %d %d", i, j, k);
d) i = j = k = 1; printf("%d", ++i || ++j && ++k); printf("%d %d %d", i, j, k);

a)

b)



c)

Programiz
C Online Compiler

main.c | Run | Output

```
1  // Online C compiler to run C program online
2  #include <stdio.h>
3
```

```
/tmp/IiQQwdUV1P.o
18 8 9
```

d)

Programiz
C Online Compiler

main.c | Run | Output

```
1  // Online C compiler to run C program online
2  #include <stdio.h>
3
4  int main() {
5      int i = 1, k=1,j=1; //i=k=j=1 means thatevery integer is equal to 1
6   printf("%d", ++i || ++j && ++k);
7   printf("%d %d %d", i, j, k);
8      return 0;
9  }
```

```
/tmp/IiQQwdUV1P.o
12 1 1
```