



**Answer: Displays “None”, because the condition is already false, so the program skip the loop.**

5. What is the following program fragment trying to do?

```
do{  
  
    printf("enter a number: ");  
    scanf("%d", &num);  
  
} while((num < 0) || (num >= 10));
```

**Answer: The program is asking the user to input a number, and the program will ask the user repeatedly for a number if the number given by the user is less than zero or it is more than or equals to ten.**

6. What will be the values of n , m, and p after executing the following statements when j = 5 and k = 2?

```
n = j - ++k;  
m = j-- + k--;  
p = k + j;
```

**Answer: n = 2, m = 8, p = 6.**

7. What is the output of this program fragment?

```
printf(" i j\n");  
  
for(i=1; i<4; ++i){  
    printf("Outer %3d\n",i);  
    for(j=0; j<i; ++j){  
        printf("Inner %11d\n",j);  
    }  
}
```

**Answer: The program will give error because the ‘i’ and ‘j’ is not declared as a variable.**

8. Complete the definition of the function factorial that computes the factorial of an integer n,

```
int factorial(int n){  
  
    int result = 1;  
    int num = n;  
  
    for (int i = 0; i < n; i++)  
    {  
        result = result * num--;  
    }  
  
    return result;  
}
```