



Functions & Scope

Deadline

Feb 28, 2021, 11:59 PM

Lecture

100.0%

Score 270.00/270



Calculating NcR



Predict the output ●

10.0/10



What and Why of Functions ?



Return type ●

10.0/10



Return type ●

10.0/10



Fill the output ●

10.0/10



Find the output ●

10.0/10



Writing More Functions



Return type ●

10.0/10



Check the error ●

10.0/10



Functions with void return type



Fahrenheit to Celsius Table ●

1 Doubt(s) asked

40.0/40



Fibonacci Number ●

40.0/40

Predict the output

[Send Feedback](#)

Predict the output of the following code:

```
public static void main (String[] args) {  
    int n=10,r=6;  
    int factn=1,factr=1,factnr=1;  
    for(int i=2;i<=n;i++)  
    {  
        factn*=i;  
        if(i<=r)  
            factr*=i;  
        if(i<=n-r)  
            factnr*=i;  
    }  
    int ncr=factn/(factr*factnr);  
    System.out.print(ncr);  
}
```

Options

☐ 252☐ 200☒ 210 ✓☐ 762

Correct Answer

Solution Description

factn=3628800, factr=720 factnr=24 ncr=3628800/(720 * 24) =210



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Predict the output

What and Why of Functions ?

Return type 10.0/10

Return type 10.0/10

Fill the output 10.0/10

Find the output 10.0/10

Writing More Functions

Return type 10.0/10

Check the error 10.0/10

Functions with void return type

Fahrenheit to Celsius Table 40.0/40
1 Doubt(s) asked

Fibonacci Number 40.0/40

How function calling works

Check for error 10.0/10

Predict the output 10.0/10

Return type

Send Feedback

What is the return type of a method that does not returns any value ?

Options

☐ int☐ double☐ char☒ void ✓

Correct Answer

Solution Description

####The functions which doesn't return any value, their return type is "void".



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Return type ● 10.0/10

Return type ● 10.0/10

Fill the output ● 10.0/10

Find the output ● 10.0/10

Writing More Functions

Return type ● 10.0/10

Check the error ● 10.0/10

Functions with void return type

 Fahrenheit to Celsius Table ●
👤 1 Doubt(s) asked 40.0/40

Fibonacci Number ● 40.0/40

How function calling works

Check for error ● 10.0/10

Predict the output ● 10.0/10

Pass by value

Global variable 10.0/10

Return type

[Send Feedback](#)

Let's say the problem is - You will be given two numbers(both integers) and you need to return their sum.

For this problem, what should be the return type of function -

Options

- ☒ int ✓
- ☐ boolean
- ☐ char
- ☐ void

Correct Answer

Solution Description

####We need to return the sum of two integers, which is again an integer. So the sum that we want to return is of type "int". Hence return type should be "int" for this function.



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Return type

Return type 10.0/10

Fill the output 10.0/10

Find the output 10.0/10

Writing More Functions

Return type 10.0/10

Check the error 10.0/10

Functions with void return type

Fahrenheit to Celsius Table 40.0/40
1 Doubt(s) asked

Fibonacci Number 40.0/40

How function calling works

Check for error 10.0/10

Predict the output 10.0/10

Pass by value

Check for error 10.0/10

Return type 10.0/10

Fill the output

Send Feedback

What will be the output of the following code ?

```
public static void func(int a, int b){  
    System.out.println(a + b);  
}  
  
public static void main(String[] args) {  
    int a = 7;  
    func(a, 12);  
}
```

Answer

Type here

19



Correct Answer





Functions & Scope

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Return type

Fill the output 10.0/10

Find the output 10.0/10

Writing More Functions

Return type 10.0/10

Check the error 10.0/10

Functions with void return type

Fahrenheit to Celsius Table 40.0/40
1 Doubt(s) asked

Fibonacci Number 40.0/40

How function calling works

Check for error 10.0/10

Predict the output 10.0/10

Pass by value

Check for error 10.0/10

Predict the output 10.0/10

Find the output

Send Feedback

What will be the output of the following code ?

```
public static void demo(int a, int b){  
    System.out.println(a + " " + b);  
}  
  
public static void main(String[] args) {  
    int a = 5;  
    int b = 15;  
    demo(a);  
}
```

Options

- ☐ 5 15
- ☒ Compilation Error ✓
- ☐ 5 0
- ☐ None of these

Correct Answer



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Find the output

Writing More Functions

Return type ● 10.0/10

Check the error ● 10.0/10

Functions with void return type

 Fahrenheit to Celsius Table ● 40.0/40
1 Doubt(s) asked

Fibonacci Number ● 40.0/40

How function calling works

Check for error ● 10.0/10

Predict the output ● 10.0/10

Pass by value

Check for error ● 10.0/10

Predict the output ● 10.0/10

Updating the value

Fill the output ● 10.0/10

Fill the output ● 10.0/10

Return type

[Send Feedback](#)

What should be return type of the following function:

```
public static ____ division(int a,int b)
{
    float c=a/b;
    return c;
}
```

Options

☐ int☒ float ✓☐ long

Correct Answer

Solution Description

As we need to return a decimal value we can use float or double.



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View more questions

Return type 10.0/10

Check the error 10.0/10

Functions with void return type

Fahrenheit to Celsius Table 40.0/40
1 Doubt(s) asked

Fibonacci Number 40.0/40

How function calling works

Check for error 10.0/10

Predict the output 10.0/10

Pass by value

Check for error 10.0/10

Predict the output 10.0/10

Updating the value

Fill the output 10.0/10

Fill the output 10.0/10

Fill the output 10.0/10

Check the error

Send Feedback

Would the following code generate an error:

```
public static double add(int a,int b)
{
    float c=a+b;
    return c;
}
public static void main (String[] args) {
    System.out.print(add(10,3));
}
```

Options

☐ Yes☒ No ✓

Correct Answer

Solution Description

There is no problem in converting float to double.



Functions & Scope

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How function calling works



Check for error ●

10.0/10



Predict the output ●

10.0/10



Pass by value



Check for error ●

10.0/10



Predict the output ●

10.0/10



Updating the value



Fill the output ●

10.0/10



Fill the output ●

10.0/10



Fill the output ●

10.0/10



Scope of Variables



Check the error ●

10.0/10



Check the error ●

10.0/10



Check Prime



Check Prime

10.0/10

Check for error

[Send Feedback](#)

Will the given code generate any error:

```
public static void func1(int a)
{
    System.out.print("a");
}
public static void main (String[] args) {
    func1(2.5);
}
```

Options

☒ Yes ✓☐ No

Correct Answer

Solution Description

The datatype of argument in function is int whereas we have passed a double value. So the code would generate an error.



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How function calling works

Check for error ● 10.0/10

Predict the output ● 10.0/10

Pass by value

Check for error ● 10.0/10

Predict the output ● 10.0/10

Updating the value

Fill the output ● 10.0/10

Fill the output ● 10.0/10

Fill the output ● 10.0/10

Scope of Variables

Check the error ● 10.0/10

Check the error ● 10.0/10

Check Prime

Check Prime ● 10.0/10

Predict the output

Predict the output

[Send Feedback](#)

What will be the output of the following code:

```
public static void func2()
{
    System.out.print("#");
}
public static void func1()
{
    System.out.print("*");
    func2();
}
public static void main (String[] args) {
    func2();
    func1();
}
```

Options

☐ #*☒ ##* ✓☐ ##*☐ *#

Correct Answer

Solution Description

First we call func2, and # is printed. Then we call func1, which first prints * and then calls func2, which prints #. So the output is ##*.



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Predict the output

Pass by value

Check for error 10.0/10

Predict the output 10.0/10

Updating the value

Fill the output 10.0/10

Fill the output 10.0/10

Fill the output 10.0/10

Scope of Variables

Check the error 10.0/10

Check the error 10.0/10

Check Prime

Check Prime 10.0/10

Running it on Codezen

Function Overloading

Predict the output 10.0/10

Check for error

[Send Feedback](#)

Will the given code generate any error:

```
public static void func1(int a)
{
    System.out.print("a");
}
public static void main (String[] args) {
    func1(2.5);
}
```

Options

☒ Yes ☐ No

Correct Answer

Solution Description

The datatype of argument in function is int whereas we have passed a double value. So the code would generate an error.



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Pass by value

Check for error ● 10.0/10

 Predict the output ● 10.0/10
1 Doubt(s) asked

Updating the value

Fill the output ● 10.0/10

Fill the output ● 10.0/10

Fill the output ● 10.0/10

Scope of Variables

Check the error ● 10.0/10

Check the error ● 10.0/10

Check Prime

Check Prime ● 10.0/10

Running it on Codezen

Function Overloading

Predict the output ● 10.0/10

Predict the output ● 10.0/10

Predict the output

[Send Feedback](#)

What will be the output of the following code:

```
public static void func1(int a,int b)
{
    int ans=1;
    for(int i=0;i<b;i++)
    {
        ans*=a;
    }
    System.out.print(ans);
}
public static void main (String[] args) {
    func1(2,5);
}
```

Options

☐ 64☐ 10☒ 32 ✓☐ Error

Correct Answer

Solution Description

The loop would execute 5 times. ans=2 * 2 * 2 * 2 * 2. ans=32.



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1 Doubt(s) asked



Updating the value



Fill the output ●

10.0/10

2 Doubt(s) asked



Fill the output ●

10.0/10



Fill the output ●

10.0/10



Scope of Variables



Check the error ●

10.0/10



Check the error ●

10.0/10



Check Prime



Check Prime ●

10.0/10



Running it on Codezen



Function Overloading



Predict the output ●

10.0/10



Predict the output ●

10.0/10



Functions

Fill the output

Send Feedback

What will be the output of the following code ?

```
public static void doubleValue(int a ){  
    a = a * 2;  
}  
public static void main(String[] args) {  
    int a = 8;  
    doubleValue(a);  
    System.out.println(a);  
}
```

Answer

Type here

8



Correct Answer



Functions & Scope

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1 Doubt(s) asked



Updating the value



Fill the output ●

10.0/10

2 Doubt(s) asked



Fill the output ●

10.0/10

1 Doubt(s) asked



Fill the output ●

10.0/10



Scope of Variables



Check the error ●

10.0/10



Check the error ●

10.0/10



Check Prime



Check Prime ●

10.0/10



Running it on Codezen



Function Overloading



Predict the output ●

10.0/10



Predict the output ●

10.0/10



Functions

Fill the output

Send Feedback

What will be the output of the following code ?

```
public static int func(int a){
    a += 10;
    return a;
}

public static void main(String[] args) {
    int a = 5;
    func(a);
    System.out.println(a);
}
```

Answer

Type here

5



Correct Answer



Functions & Scope

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1 Doubt(s) asked



Updating the value



Fill the output ●

2 Doubt(s) asked

10.0/10



Fill the output ●

1 Doubt(s) asked

10.0/10



Fill the output ●

10.0/10



Scope of Variables



Check the error ●

10.0/10



Check the error ●

10.0/10



Check Prime



Check Prime ●

10.0/10



Running it on Codezen



Function Overloading



Predict the output ●

10.0/10



Predict the output ●

10.0/10



Functions

Fill the output

[Send Feedback](#)

What will be the output of the following code ?

```
public static int square(int a){
    int ans = a * a;
    return ans;
}

public static void main(String[] args) {
    int a = 4;
    a = square(a);
    System.out.println(a);
}
```

Answer

Type here

16



Correct Answer



Functions & Scope

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- 🔗 Predict the output 10.0/10
👤 1 Doubt(s) asked
- ▶ Updating the value
- 🔗 Fill the output 10.0/10
👤 2 Doubt(s) asked
- 🔗 Fill the output 10.0/10
👤 1 Doubt(s) asked
- 🔗 Fill the output 10.0/10
- ▶ Scope of Variables
- 🔗 Check the error 10.0/10
- 🔗 Check the error 10.0/10
- ▶ Check Prime
- 🔗 Check Prime 10.0/10
- ▶ Running it on Codezen
- ▶ Function Overloading
- 🔗 Predict the output 10.0/10
- 🔗 Predict the output 10.0/10
- 📁 Functions

Check the error

[Send Feedback](#)

Will following code generate any error ?

```
public class Main {
    public static void func(int a) {
        int b = a;
        b = b + 10;
    }

    public static void main(String[] args) {
        int a = 10;
        func(a);
        System.out.println(b);
    }
}
```

Options

☒ Yes ✓

☐ No

Correct Answer

Solution Description

####Code will generate error as we are trying to print value of variable b in main and there isn't any variable b created or accessible in main. Variable b in the code is created inside function _func_ and is local to this function and not accessible outside it.





Functions & Scope

Deadline

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1 Doubt(s) asked



Updating the value



Fill the output ●

10.0/10

2 Doubt(s) asked



Fill the output ●

10.0/10

1 Doubt(s) asked



Fill the output ●

10.0/10



Scope of Variables



Check the error ●

10.0/10



Check the error ●

10.0/10



Check Prime



Check Prime ●

10.0/10



Running it on Codezen



Function Overloading



Predict the output ●

10.0/10



Predict the output ●

10.0/10



Functions

Check the error

Send Feedback

Will following code generate any error ?

```
public class Main {  
    public static void func(int a) {  
        int b = 10;  
        a = a + 10;  
        System.out.println(a);  
    }  
  
    public static void main(String[] args) {  
        int a = 10;  
        func(a);  
        System.out.println(a);  
    }  
}
```

Options

☐ Yes☒ No ✓

Correct Answer



Functions & Scope

Deadline

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1 Doubt(s) asked



Updating the value



Fill the output ●

2 Doubt(s) asked

10.0/10



Fill the output ●

1 Doubt(s) asked

10.0/10



Fill the output ●

10.0/10



Scope of Variables



Check the error ●

10.0/10



Check the error ●

10.0/10



Check Prime



Check Prime ●

10.0/10



Running it on Codezen



Function Overloading



Predict the output ●

10.0/10



Predict the output ●

10.0/10



Functions

Check Prime

Send Feedback

What will be the output of the following code:

```
public static boolean isPrime(int x)
{
    for(int i=2;i<x/2;i++)
    {
        if(x%i==0)
            return false;
    }
    return true;
}

public static void main (String[] args) {
    System.out.print(isPrime(47));
}
```

Options

☒ true ✓☐ false☐ error

Correct Answer

Solution Description

The loop would execute for i=2 to 23. And 47 is not divisible by any of them.



Functions & Scope

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1 Doubt(s) asked



Updating the value



Fill the output ●

2 Doubt(s) asked

10.0/10



Fill the output ●

1 Doubt(s) asked

10.0/10



Fill the output ●

10.0/10



Scope of Variables



Check the error ●

10.0/10



Check the error ●

10.0/10



Check Prime



Check Prime ●

10.0/10



Running it on Codezen



Function Overloading



Predict the output ●

10.0/10



Predict the output ●

10.0/10



Functions

Predict the output

[Send Feedback](#)

What will be the output of the following code:

```
public static int sum(int a,int b)
{
    System.out.print("int sum ");
    return a+b;
}
public static long sum(long a,long b)
{
    System.out.print("long sum ");
    return a+b;
}
public static void main (String[] args) {
    int a=4;
    int b=5;
    System.out.print(sum(a,b));
}
```

Options

- ☒ int sum 9 ✓
- ☐ long sum 9
- ☐ error
- ☐ int sum long sum 9

Correct Answer

Solution Description

As both the datatypes are int So first function would be called.



Functions & Scope

Deadline

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Predict the output
1 Doubt(s) asked

Updating the value

Fill the output ●
2 Doubt(s) asked

10.0/10

Fill the output ●
1 Doubt(s) asked

10.0/10



Fill the output ●

10.0/10



Scope of Variables



Check the error ●

10.0/10



Check the error ●

10.0/10



Check Prime



Check Prime ●

10.0/10



Running it on Codezen



Function Overloading



Predict the output ●

10.0/10



Predict the output ●

10.0/10



Functions

Predict the output

[Send Feedback](#)

What will be the output of the following code:

```
public static int sum(int a,int b)
{
    System.out.print("int sum ");
    return a+b;
}
public static double sum(double a,double b)
{
    System.out.print("float sum ");
    return a+b;
}
public static void main (String[] args) {
    System.out.print(sum(5,4));
    System.out.print(sum(5.0,4.0));
}
```

Options

- ☐ int sum 9
- ☐ int sum 9float sum 9
- ☒ int sum 9float sum 9.0 ✓
- ☐ error

Correct Answer

Solution Description

sum(5,4) would call the 1st Function and sum (5.0,4.0) would call 2nd Function.