

////////////////////////////////////

Q290 Case XIV

=====

```
class Example{
    public static int printTotal(int a,int b){
        int tot;
        tot=a+b;
        return tot;
        System.out.println("tot : "+tot);
    }
    public static void main(String args[]){
        printTotal(10,20);
    }
}
```

////////////////////////////////////

Q291 Case XV

=====

```
class Example{
    public static char grade(double avg){
        if(avg>=75){
            return 'A';
        }else if(avg>=65){
            return 'B';
        }else if(avg>=45){
            return 'C';
        }else if(avg>=25){
            return 'D';
        }
    }
    public static void main(String args[]){

    }
}
```

////////////////////////////////////

Q292 Option 1 for Q291

=====

```
class Example{
    public static char grade(double avg){
        if(avg>=75){
            return 'A';
        }else if(avg>=65){
            return 'B';
        }else if(avg>=45){
```

```

        return 'C';
    }else if(avg>=25){
        return 'D';
    }else{
        return 'E';
    }
}

public static void main(String args[]){

}

}

```

//

Q293 Option 2 for Q291

=====

```

class Example{
    public static char grade(double avg){
        if(avg>=75){
            return 'A';
        }else if(avg>=65){
            return 'B';
        }else if(avg>=45){
            return 'C';
        }else if(avg>=25){
            return 'D';
        }
        return 'E';
    }

    public static void main(String args[]){

    }

}

```

//

Q294 Option 3 for Q291

=====

```

class Example{
    public static char grade(double avg){
        if(avg>=75){
            return 'A';
        }else if(avg>=65){
            return 'B';
        }else if(avg>=45){
            return 'C';
        }else if(avg>=25){

```

```

        return 'D';
    }else{
        return 'E';
    }
    return 'F'; //Illegal
}
public static void main(String args[]){

}
}

```

//

Q295 Case XVI

=====

```

class Example{
    public static void printTotal(int a,int b){
        int tot;
        tot=a+b;
        System.out.println(a+" + "+b+" = "+tot);
    }
    public static int getTotal(int a,int b){
        int tot;
        tot=a+b;
        System.out.println(a+" + "+b+" = "+tot);
        return tot;
    }
    public static void main(String args[]){
        printTotal(10,20);
        getTotal(10,20); //Legal
    }
}

```

//

Q296 Case XVII

=====

```

class Example{
    public static void printTotal(int a,int b){
        int tot;
        tot=a+b;
        System.out.println(a+" + "+b+" = "+tot);
    }
    public static int getTotal(int a,int b){
        int tot;
        tot=a+b;
        System.out.println(a+" + "+b+" = "+tot);
    }
}

```

```

        return tot;
    }
    public static void main(String args[]){
        int tot;
        tot=printTotal(10,20);
        tot=getTotal(10,20);
        System.out.println(printTotal(10,20));
        System.out.println(getTotal(10,20));
    }
}

```

//

Q297 Exercise

=====

```

class Example{
    public static void main(String args[]){

        System.out.println(x); //12-->output-->100
        System.out.println(x()); //13->output-->100
    }
}

```

//

Q298 From Q297

=====

```

class Example{
    public static int x(){
        return 100;
    }
    public static void main(String args[]){
        int x=100;
        System.out.println(x); //12-->output-->100
        System.out.println(x()); //13->output-->100
    }
}

```

//

Q299 Exercise

=====

```

class Example{
    public static int x(int x){
        return ++x;
    }
    public static void main(String args[]){
        int x=100;
    }
}

```

```

        System.out.println(x(++x)+x(++x)+x(++x));
    }
}

```

```

/////////////////////////////////////////////////////////////////

```

Q300 Exercise

```

=====

```

```

class Example{
    public static int x(int x){
        return x++;
    }
    public static void main(String args[]){
        int x=100;
        System.out.println(x(x++));
        System.out.println(x=x(x++));
    }
}

```

```

/////////////////////////////////////////////////////////////////

```

Method Overloading

```

/////////////////////////////////////////////////////////////////

```

Q301 Exercise

```

=====

```

```

class Example{
    //
    //
    public static void main(String args[]){
        int a=-123;
        long b=-123;
        float c=-123.0f;
        double d=-123.0;

        a=abs(a);
        b=abs(b);
        c=abs(c);
        d=abs(d);

        System.out.println("absolute value of a : "+a); //123
        System.out.println("absolute value of b : "+b); //123
        System.out.println("absolute value of c : "+c); //123.0
        System.out.println("absolute value of d : "+d); //123.0
    }
}

```

////////////////////////////////////

Q302 From Q301

=====

```
class Example{
    public static double abs(double num){
        return num<0 ? -num:num;
    }
    public static void main(String args[]){
        int a=-123;
        long b=-123;
        float c=-123.0f;
        double d=-123.0;

        a=abs(a);
        b=abs(b);
        c=abs(c);
        d=abs(d);

        System.out.println("absolute value of a : "+a); //123
        System.out.println("absolute value of b : "+b); //123
        System.out.println("absolute value of c : "+c); //123.0
        System.out.println("absolute value of d : "+d); //123.0
    }
}
```

////////////////////////////////////

Q303 From Q301 Using method overloading

=====

```
class Example{
    public static double abs(double num){
        return num<0 ? -num:num;
    }
    public static float abs(float num){
        return num<0 ? -num:num;
    }
    public static long abs(long num){
        return num<0 ? -num:num;
    }
    public static int abs(int num){
        return num<0 ? -num:num;
    }
    public static void main(String args[]){
        int a=-123;
        long b=-123;
        float c=-123.0f;
```

```

        double d=-123.0;

        a=abs(a);
        b=abs(b);
        c=abs(c);
        d=abs(d);

        System.out.println("absolute value of a : "+a); //123
        System.out.println("absolute value of b : "+b); //123
        System.out.println("absolute value of c : "+c); //123.0
        System.out.println("absolute value of d : "+d); //123.0
    }
}

```

```

////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////

```

Q304 Exercise

```

=====

```

```

class Example{
    public static void myMethod(int x){
        System.out.println("myMethod1(int)");
    }
    public static void myMethod(int x){
        System.out.println("myMethod2(int)");
    }
    public static void main(String args[]){
        myMethod(100);
    }
}

```

```

////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////

```

Q305 Case I

```

=====

```

```

class Example{
    public static void myMethod(int x){
        System.out.println("myMethod(int)");
    }
    public static void myMethod(double x){
        System.out.println("myMethod(double)");
    }
    public static void main(String args[]){
        myMethod(100);
        myMethod(100.0);
    }
}

```

////////////////////////////////////

Q306 Case II

=====

```
class Example{
    public static void myMethod(int x){
        System.out.println("myMethod(int)");
    }
    public static void myMethod(int x, int y){
        System.out.println("myMethod(int,int)");
    }
    public static void main(String args[]){
        myMethod(100);
        myMethod(100,200);
    }
}
```

////////////////////////////////////

Q307 Case III

=====

```
class Example{
    public static void myMethod(int x,double y){
        System.out.println("myMethod(int,double)");
    }
    public static void myMethod(double x, int y){
        System.out.println("myMethod(double,int)");
    }
    public static void main(String args[]){
        myMethod(100,100.0);
        myMethod(100.0,200);
    }
}
```

////////////////////////////////////

Q308 Case IV

=====

```
class Example{
    public static void myMethod(int x,double y){
        System.out.println("myMethod(int,double)");
    }
    public static void myMethod(double x, int y){
        System.out.println("myMethod(double,int)");
    }
    public static void main(String args[]){
        myMethod(100,200); //Illegal->wrong argument set
    }
}
```



```
    }  
}
```

```
////////////////////////////////////////////////////////////////
```

Q309 Case V

```
=====
```

```
class Example{  
    public static void myMethod(int itemCode){  
        System.out.println("myMethod(int-itemCode)");  
    }  
    public static void myMethod(int customerCode){  
        System.out.println("myMethod(int-customerCode)");  
    }  
    public static void main(String args[]){  
  
    }  
}
```

```
////////////////////////////////////////////////////////////////
```

Q310 Case VI

```
=====
```

```
class Example{  
    public static char myMethod(){  
        System.out.println("myMethod()");  
        return 'A';  
    }  
    public static double myMethod(){  
        System.out.println("myMethod()");  
        return 1.234;  
    }  
    public static void main(String args[]){  
  
    }  
}
```

```
////////////////////////////////////////////////////////////////
```

Q311 Case VII

```
=====
```

```
class Example{  
    public static char myMethod(int x){  
        System.out.println("myMethod(int)");  
        return 'A';  
    }  
    public static double myMethod(double x){ //Legal
```

```
        System.out.println("myMethod(double)");
        return 1.234;
    }
    public static void main(String args[]){

    }
}
```

```
////////////////////////////////////
Q312
```

```
////////////////////////////////////
Q313
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////////////////////////////////////
Q314
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////////////////////////////////////
Q315
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Q316
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Q317
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Q318
```

```
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Q319
```

```
////////////////////////////////////
Q320
```