

Appropriate/Inappropriate Method Headers

CSCI 111

- Method (including Constructor) headers must be different in Java.
- Headers are different if at least one of the following holds:
 1. The method names are different.
 2. The input parameter(s) are of different number, order, or dataType.

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- Headers are different if at least one of the following holds:
 1. The method names are different.
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```
public void changeStudentInfo(String newName, int newID)  
public void changeStudentInfo(String newName, int newID)
```

- Method (including Constructor) headers must be different in Java.
- Headers are different if at least one of the following holds:
 1. The method names are different.
 2. The input parameter(s) are of different number, order, or dataType.

```
public void changeStudentInfo(String newName, int newID)
```

```
public void changeStudentInfo(String newName, int newID)
```

```
public void changeStudentInfo(int newID, double newGPA)
```

```
public class Student
{
    public Student(String inName, String inID)
    {

    }

    public Student(String inName)
    {

    }
}
```

Will it compile?

```
public class Student
{
    public Student(String inName, String inID)
    {

    }

    public Student(String inName)
    {

    }
}
```

Will it compile?

YES – Different number of parameters.

```
public class Student
{
    private String name;
    private int idNum;

    public Student(String inName)
    {
        name = inName;
        idNum = 1111;
    }

    public Student(String inName)
    {
        name = inName;
    }
}
```

Will it compile?

```
public class Student
{
    private String name;
    private int idNum;

    public Student(String inName)
    {
        name = inName;
        idNum = 1111;
    }

    public Student(String inName)
    {
        name = inName;
    }
}
```

Will it compile?
NO – Same
number of
parameters of
same dataType.

```
public class Student
{
    private String name;
    private String major;

    public Student(String inName)
    {
        name = inName;
    }

    public Student(String inMajor)
    {
        major = inMajor;
    }
}
```

Will it compile?

```
public class Student
{
    private String name;
    private String major;

    public Student(String inName)
    {
        name = inName;
    }

    public Student(String inMajor)
    {
        major = inMajor;
    }
}
```

**Will it compile?
NO – Same
number of
parameters of
same dataType.**

```
public class Student
{
    private String name;
    private int idNum;

    public Student(String inName)
    {
        name = inName;
    }

    public Student(int inID)
    {
        idNum = inID;
    }
}
```

Will it compile?

```
public class Student
{
    private String name;
    private int idNum;

    public Student(String inName)
    {
        name = inName;
    }

    public Student(int inID)
    {
        idNum = inID;
    }
}
```

**Will it compile?
YES – Different
parameter
dataType.**

```
public class Student
{
    //instance variables omitted

    public Student(String inName, int inID)
    {
        //omitted
    }

    public Student(String inMajor, int inNumCredits)
    {
        //omitted
    }
}
```

Will it compile?

```
public class Student
{
    //instance variables omitted

    public Student(String inName, int inID)
    {
        //omitted
    }

    public Student(String inMajor, int inNumCredits)
    {
        //omitted
    }
}
```

Will it compile?
**NO – Same number
of parameters of
same dataType.**

```
public class Student
{
    //instance variables omitted

    public Student(int inID, String inName)
    {
        //omitted
    }

    public Student(String inMajor, int inNumCredits)
    {
        //omitted
    }
}
```

Will it compile?

```
public class Student
{
    //instance variables omitted

    public Student(int inID, String inName)
    {
        //omitted
    }

    public Student(String inMajor, int inNumCredits)
    {
        //omitted
    }
}
```

Will it compile?
**YES – Different
parameter ordering.**

```
public class Student
{
    //instance variables omitted

    public void changeName(String newName)
    {
        //omitted
    }

    public void changename(String newName)
    {
        //omitted
    }
}
```

Will it compile?

```
public class Student
{
    //instance variables omitted

    public void changeName(String newName)
    {
        //omitted
    }

    public void changename(String newName)
    {
        //omitted
    }
}
```

**Will it compile?
YES – Different
method name.**

```
public class Student
{
    //instance variables omitted

    public void changeName(String newName1)
    {
        //omitted
    }

    public void changeName(String newName2)
    {
        //omitted
    }
}
```

Will it compile?

```
public class Student
{
    //instance variables omitted

    public void changeName(String newName1)
    {
        //omitted
    }

    public void changeName(String newName2)
    {
        //omitted
    }
}
```

Will it compile?
**No – Same number
of parameters of
same dataType.**