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Java Reflection - Attributes ★

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Problem

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JAVA reflection is a very powerful tool to inspect the attributes of a class in runtime. For example, we can retrieve the list of public fields of a class using `getDeclaredMethods()`.

In this problem, you will be given a class `Solution` in the editor. You have to fill in the incompleted lines so that it prints all the methods of another class called `Student` in alphabetical order. We will append your code with the `Student` class before running it. The `Student` class looks like this:

```
class Student{
    private String name;
    private String id;
    private String email;

    public String getName() {
        return name;
    }
    public void setId(String id) {
        this.id = id;
    }
    public void setEmail(String email) {
        this.email = email;
    }
    public void anothermethod(){ }
    .....
    .....
    some more methods
    .....
}
```

You have to print all the methods of the student class in alphabetical order like this:

```
anothermethod
getName
setEmail
setId
.....
.....
some more methods
.....
```

There is no sample input/output for this problem. If you press "Run Code", it will compile it, but it won't show any outputs.

Hint: See the oracle docs for more details about [JAVA Reflection Methods and Fields](#)

Author [akashs_csedu](#)Difficulty [Easy](#)

Max Score 15

Submitted By [62005](#)

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Java 7



```
82 ▼ public class Solution {
83
84 ▼     public static void main(String[] args){
85         // Get the Student class
86         Class<Student> student = Student.class;
87
88         // Get all declared methods
89         Method[] methods = student.getDeclaredMethods();
90
91         // Store method names in a list
92         ArrayList<String> methodList = new ArrayList<>();
93 ▼     for (Method method : methods) {
94         methodList.add(method.getName());
95     }
96
97     // Sort method names alphabetically
98     Collections.sort(methodList);
99
100    // Print sorted method names
101 ▼    for (String name : methodList) {
102        System.out.println(name);
103    }
104 }
105
106 }
```

Line: 100 Col: 11

Upload Code as File

☐ Test against custom input

Run Code

Submit Code



You have earned 15.00 points!

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86%

140/150

Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

✓ Test case 0 

Compiler Message

Success

Hidden Test Case

Unlock this testcase for 5 hackos.

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