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ICS 4U1
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Homework - Section 5.4 (#1-4)

- 1 `Math.abs()` // outputs the type of data that was given
 // you can use int, double ...etc inside the parameters

- 2 a) Valid // calls `foo(int i, int j)`
 b) Invalid // first number can't be long
 c) Valid // calls `foo(int i, int j)`
 d) Invalid // 2nd number is a double
 e) Valid // calls `foo(int m, long n)`
 f) Valid // calls `foo(int i, int j)`

- 3

```
public static void rollDie(int rolls){
    for(int i = 1; i <= rolls; i++){
        System.out.println((int)(6*Math.random()+1));
    }
    if(rolls < 1)
        System.out.println("ERROR");
}

public static void rollDie(int rolls, int faces){
    if(rolls < 1 || faces < 4)
        System.out.println("ERROR");
    if(faces >= 4){
        for(int i = 1; i <= rolls; i++){
            System.out.println((int)(faces*Math.random()+1));
        }
    }
}
```

```
4    public static int average(int a, int b){  
        int average = (a + b)/2;  
        return average;  
    }  
  
    public static double average(double c, double d){  
        double average = (a + b)/2;  
        return average;  
    }
```