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Homework 5

September 14 2021

```
private static int getPositiveInteger(SimpleReader in, SimpleWriter out) {
    out.print("Input beginning number: ");
    String userInput = in.nextLine();
    while(!FormatChecker.canParseInt(userInput)) {
        out.println("Input positive Integer: ");
        userInput = in.nextLine();
    }
    int converted = Integer.parseInt(userInput);
    return converted;
}
```

1)

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		int 1=2
	While (165) &	
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2)

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	double y= (.0)
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	X=45-67
	Y=3210
3	
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	x=7 Y=0
	14=0
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```
//a
 int sum = 0;
 for (int i = 2; i<101; i+=2){
      sum += i;
 }
//b
 int sum1 = 0;
for (int i = 1; i*i<101; i++){
      sum1 += i*i;
 }
 for (int i = 0; i < 21; i + +){
      double computed = Math.pow(2, i);
 }
 if (a%2==0) {
     a++;
 int sum2 = 0;
 for(int i=a;i<=b;a+=2) {</pre>
     sum2+=a;
 }
 String input1 = Integer.toString(userInput);
 int sum3 = 0;
 for(int i=0;i<input1.length();i+=2) {</pre>
      sum3+=Character.getNumericValue(input1.charAt(i));
 }
 String input2 = Integer.toString(userInput);
 int sum4 = 0;
 for(int i=input2.length()-1;i>-1;i-=2) {
      sum4+=Character.getNumericValue(input1.charAt(i));
 }
```

3)

```
//a
   public static int larger(int x,int y) {}

//b
   public static double smallest(double x, double y, double z) {}

//c
   public static boolean prime(int x) {}

//d
   public static boolean included(String small, String big) {}

//e
   public static double balance(double initial, double interest, int years) {}

//f
   public static void balance(double balance, double interest, int years) {}

//g
   public static void calendar(int month, int year) {}

//h
   public static String weekday(String day, int month, int year) {}

//i
   public static int random(int n) {}
```

5) Since Java is pass-by-value, the values within the swap method copy the values from the argument and those values get swapped, but not the actual arguments.

```
public static boolean allTheSame(int x, int y, int z) {
        if (x==y && y==z) {
            return true;
        return false;
  //b
    public static boolean allDifferent (int x, int y, int z) {
        int count = 0;
        if (x!=y) {
            count++;
        if (x!=z) {
            count++;
        if (y!=z) {
            count++;
        if(count ==3) {
             return true;
        return false;
    public static boolean sorted(int x, int y, int z) {
        if (x<y && y<z) {
            return true;
        return false;
6)
```