AP CS A problem set
1 December 2021

Do your work in a notebook. Be prepared to share your work in class tomorrow.

1. **Make a code tracing table for the program below. Make sure your program has a column for m, n, and $m \times n$:**

```
public static void main(String[] args){
  //int count = 0;
  int max_m = 2;
  int max_n = 3;
  for (int m = 0; m < max_m; m++){
    System.out.println("m = " + m);
    for (int n = 0; n < max_n; n++){
      System.out.println("n = " + n);
      System.out.println("m*n = " + (m*n));
    }// end inner loop
  }//end outer loop
```

2. **Find the execution statement count for the program below. Use some means, such as a table, to show how you obtained your answer:**

```
int max_m = 2;
int max_n = 3;
int count = 0;
for (int m = 0; m < max_m; m++){
  for (int n = 0; n < max_n; n++){
    count++;
  }// end inner loop
}//end outer loop
System.out.print(count);
```

3. ***Bonus*: find the execution statement count for the program in (1).**