CMPT 125 Quiz - September 25, 2018

Name: _____

SFU ID:_____

Q1 . What will be the output of the following program? Write a short explanation.

```c
#include<stdio.h>

int global_count = 2;

int fun() {
        static int count = 0;
        count++;
        global_count++;
        return count;
}


int main() {
        printf("%d \n", global_count);
        printf("%d \n", fun());
        printf("%d \n", fun());
        global_count++;
        printf("%d \n", global_count);
        return 0;
}
```

Q2. What is the running time of bar(int n) as a function of n? Write a short explanation.

```c
int bar(int n) {
        int i,j,k, sum = 0;
        for (i = 0; i < n; i++)
                for (j = 0; j < n; j++)
                        for (k = 0; k < n; k++)
                                sum = sum + k;
        return sum;
}
```