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#include <stdio.h>
#include <math.h>
int main(){
    int num, count = 0;
    double sum = 0.0, prod = 1.0;
    scanf("%d",&num);
    while(num != -1){
        count++;
        sum += num;
        prod *= num;
        scanf("%d",&num);
    }
    // Lets print the AM
    if(count == 0) printf("EMPTY STREAM\n");
    else printf("%0.4lf\n",sum/count); // count will get auto-typecast to double since sum is
double

    // Lets print the GM
    if(count == 0) printf("EMPTY STREAM");
    else if(prod < 0) printf("INVALID INPUT");
    else printf("%0.4lf\n",pow(prod, 1.0/count)); // If we write 1/count it will evaluate to 0 due
to integer division
    return 0;
}
```