#include<stdio.h>

#include<math.h>

double f(double x){

return (log(x)\*log(x));

}

main(){

int n,i;

double a,b,h,x,sum=0,integral;

printf("\nEnter the no. of sub-intervals(EVEN): ");

scanf("%d",&n);

printf("\nEnter the initial limit: ");

scanf("%lf",&a);

printf("\nEnter the final limit: ");

scanf("%lf",&b);

h=fabs(b-a)/n;

for(i=1;i<n-1;i++){

sum=sum+f(a+i\*h);

}

integral=(h/2)\*(f(a)+f(b)+2\*sum);

printf("\nThe integral is: %lf\n",integral);

}

OUTPUT:

Enter the no. of sub-intervals(EVEN): 10

Enter the initial limit: 1.0

Enter the final limit: 1.5

The integral is: 0.023417