

```
#include <stdio.h>
#include <math.h>

double f(double);

int
main() {

    double a, b, x, h, sum;
    int j, n;

    a=0.0;
    b=1.0;
    n=1000;
    h=(b-a)/n;

    sum=0.;
    for(j=0; j<=n; j++) {
        x=a+j*h;
        sum += f(x);
    }
    sum = h*(sum-0.5*(f(a)+f(b)));
    printf("\n risultato: %lf\n",sum);
}

double
f(double x) {
    return pow(x,3);
}
```