



```

#include <iostream>
#include <cmath>
using namespace std;

```

```

int main ()
{
    int sum = 0;
    int counter = 0;
    int average = 0;
    int n = 1;

    while ( n != 0)
    {
        cout << "Please input n: ";
        cin >> n;
        sum = sum + n;
        if ( n!=0)
            counter = counter + 1;
        average = sum / counter;
    }
    cout << "the average is: " << average << endl;
    return (0);
}
// the answer
//
//
// 1, 2, 3, 4, 5, 0
// the average is 3

```



Start-----> input y -----> if  $y \geq v$  -----> output x,v,t  
-----> else  $y < v$ ----->  $t++$ ;  $v = (9 * t * t) - (4 * t)$ ;  $x = (3 * t * t * t) - (2 * t * t) + 5$ ;

```
#include <iostream>
#include <cmath>
using namespace std;
```

```
int main ()
{
    int t = 0;
    int v = 0;
    int y;
    int x;

    cout << "Please input y: ";
    cin >> y;

    while (y >= v)
    {
        t++;

        v = (9*t*t) - (4*t);

        x = (3*t*t*t) - (2*t*t) + 5;

    }
    cout << t << endl;
    cout << x << endl;
    cout << v << endl;
    return (0);
}
```