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**Homework5\_1**

*a. Write a C++ program to compute*

**Code :**

#include<iostream>

using namespace std;

int main(){

double g = 32;

double AllD;

double eachD;

double temp;

for (int i = 1; i < 11; i++)

{

temp = 0.5 \* g \* (i-1) \* (i-1);

AllD = 0.5 \* g \* i \* i;

eachD = AllD - temp;

cout << i << " : Distance in the Current Time Interval = " << eachD << " ft " << endl;

cout << i << " : Total Distance until now = " << AllD << " ft " << endl;

}

return 0;

}

//This code is created by Hanlin Cai

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*b. Complete the following chart:*

表格

中度可信度描述已自动生成

1 : Distance in the Current Time Interval = 16 ft

1 : Total Distance until now = 16 ft

2 : Distance in the Current Time Interval = 48 ft

2 : Total Distance until now = 64 ft

3 : Distance in the Current Time Interval = 80 ft

3 : Total Distance until now = 144 ft

4 : Distance in the Current Time Interval = 112 ft

4 : Total Distance until now = 256 ft

5 : Distance in the Current Time Interval = 144 ft

5 : Total Distance until now = 400 ft

6 : Distance in the Current Time Interval = 176 ft

6 : Total Distance until now = 576 ft

7 : Distance in the Current Time Interval = 208 ft

7 : Total Distance until now = 784 ft

8 : Distance in the Current Time Interval = 240 ft

8 : Total Distance until now = 1024 ft

9 : Distance in the Current Time Interval = 272 ft

9 : Total Distance until now = 1296 ft

10 : Distance in the Current Time Interval = 304 ft

10 : Total Distance until now = 1600 ft