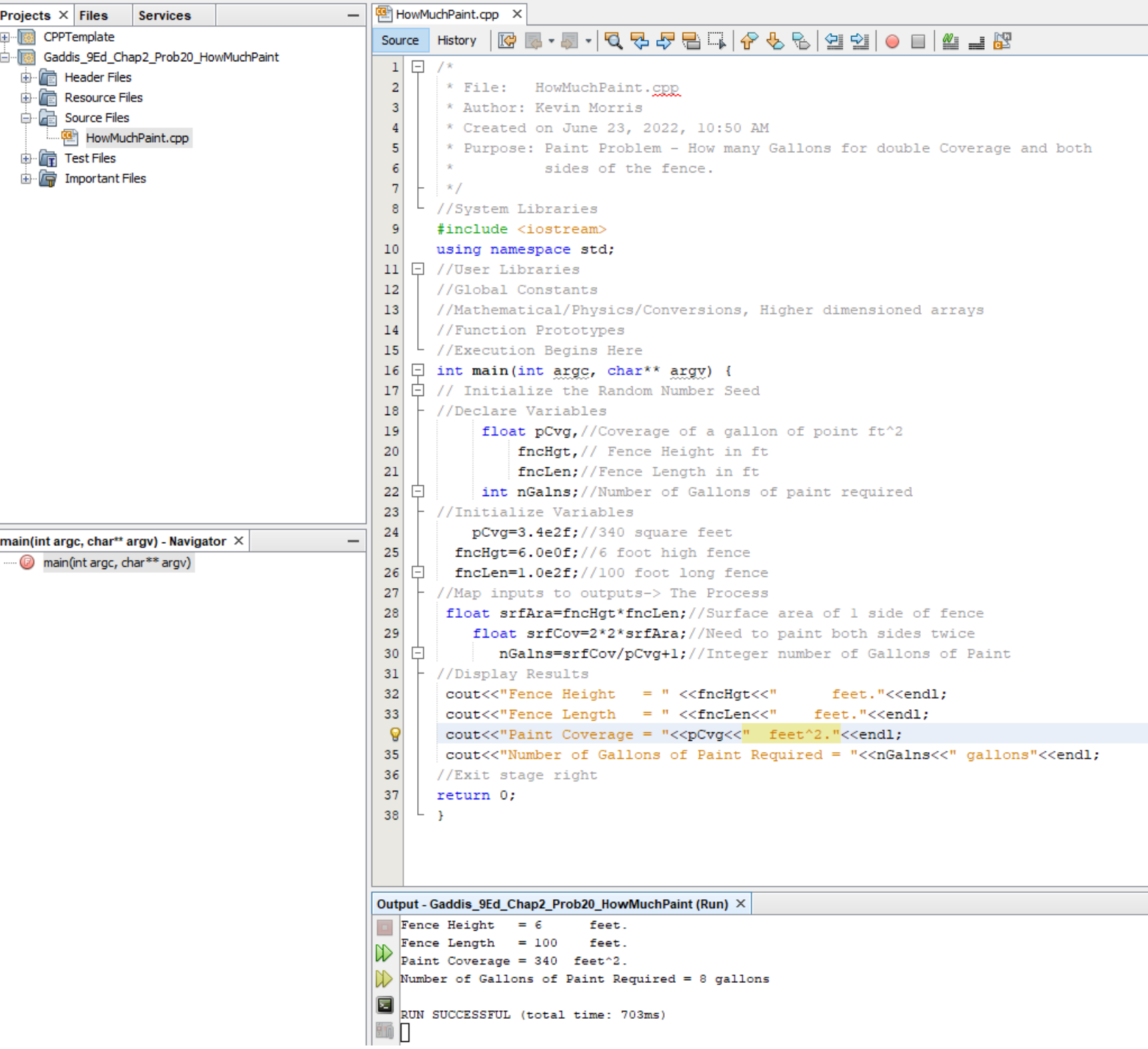
Projects
Files
Services
CPPTemplate
Gaddis_9Ed_Chap2_Prob20_HowMuchPaint
Header Files
Resource Files
Source Files
HowMuchPaint.cpp
Test Files
Important Files
main(int argc, char** argv) - Navigator
main(int argc, char** argv)
HowMuchPaint.cpp
Source
History
1 /*
2 * File: HowMuchPaint.cpp
3 * Author: Kevin Morris
4 * Created on June 23, 2022, 10:50 AM
5 * Purpose: Paint Problem - How many Gallons for double Coverage and both
6 * sides of the fence.
7 */
8 //System Libraries
9 #include <iostream>
10 using namespace std;
11 //User Libraries
12 //Global Constants
13 //Mathematical/Physics/Conversions, Higher dimensioned arrays
14 //Function Prototypes
15 //Execution Begins Here
16 int main(int argc, char** argv) {
17 // Initialize the Random Number Seed
18 //Declare Variables
19 float pCvg,//Coverage of a gallon of point ft^2
20 fncHgt,// Fence Height in ft
21 fncLen;//Fence Length in ft
22 int nGalns;//Number of Gallons of paint required
23 //Initialize Variables
24 pCvg=3.4e2f;//340 square feet
25 fncHgt=6.0e0f;//6 foot high fence
26 fncLen=1.0e2f;//100 foot long fence
27 //Map inputs to outputs-> The Process
28 float srfAra=fncHgt*fncLen;//Surface area of 1 side of fence
29 float srfCov=2*2*srfAra;//Need to paint both sides twice
30 nGalns=srfCov/pCvg+1;//Integer number of Gallons of Paint
31 //Display Results
32 cout<<"Fence Height = " <<fncHgt<<" feet."<<endl;
33 cout<<"Fence Length = " <<fncLen<<" feet."<<endl;
34 cout<<"Paint Coverage = "<<pCvg<<" feet^2."<<endl;
35 cout<<"Number of Gallons of Paint Required = "<<nGalns<<" gallons"<<endl;
36 //Exit stage right
37 return 0;
38 }
Output - Gaddis_9Ed_Chap2_Prob20_HowMuchPaint (Run)
Fence Height = 6 feet.
Fence Length = 100 feet.
Paint Coverage = 340 feet^2.
Number of Gallons of Paint Required = 8 gallons
RUN SUCCESSFUL (total time: 703ms)