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... ol \verb|\Computer Science| CMPR121\\| Homework\\| HW1B\\| HW1B\\| Source.cpp
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1
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```
1 // Attached: HW 1a, HW 1b
2 //
4 // File: HW-1b
6 // Programmer: Stephen Moye
7 // Class: CMPR 121 Tuesday
8 // Instructor: Dennis Rainey
9 //
10 //
    Description:
11 //
    This function prompts the user to enter
12 //
    temperatures in three cities and outputs the average
15 #include <iostream>
16 #include <iomanip>
17
18 using namespace std;
19
20 void getTemps(float[]);
21 float calcAvg(float[]);
22 void displayAvg(float average);
23
24 const int SIZE = 3;
25
29 int main() {
30
31
    float temps[SIZE];
32
    float average = 0;
33
  getTemps(temps);
34
35
    average = calcAvg(temps);
36
    displayAvg(average);
37
38
    return 0;
39 }
41 // end of main
43
44
45
47 // getSalesAmt
49 // This function prompts the user to enter 3 temperatures
50 //
51 // Input:
52 //
      temps, an empty array
```

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53 // Output:
54 //
      the user's 3 temps are pushed to the temps array
56 void getTemps(float temps[])
57 {
58
    cout << "Enter temperatures of " << SIZE <<" cities. " << endl;</pre>
59
60
61
    for (int i = 0; i < SIZE; i++)</pre>
62
      cout << endl << "#" << i + 1 << ":\t";</pre>
63
      cin >> temps[i];
64
65
    }
66
67 }
69 // end of getSalesAmt
71
72
73
75 // calcAvg
77 // This function calculates the sum and average of the 3 temperatures
78 //
79 // Input:
80 //
      temps, an empty array
81 // Output:
82 //
      the average of the 3 temperatures is returned to main
84 float calcAvg(float temps[])
85 {
86
    float average;
87
    float sum = 0;
88
89
    for (int i = 0; i < SIZE; i++)</pre>
90
91
      sum += temps[i];
92
93
94
    average = sum / SIZE;
95
96
    return average;
97 }
99 // end of calcAvg
101
102
103
```

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```
105 // displayAvg
107 // This function displays the average of the 3 temperatures to 1 decial point
108 //
109 // Input:
       average, a float of the 3 temperature averages
110 //
111 // Output:
112 //
       the average of the 3 temperatures with some text is displayed
113 // -----
114 void displayAvg(float average)
115 {
     cout << endl << endl << "The average temperature is " << setprecision(1) << →</pre>
116
      fixed << average << " degrees." << endl;</pre>
117 }
118 // -----
119 // end of displayAvg
120 // -----
```

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