

LAB EXERCISE

1. a) `int empNums[100];`
b) `float payRates[25];`
c) `long miles[14];`
d) `string cityName[27];`
e) `double lightYears[1000];`

2. `int reading[-1];` - size declator don't have negative value
`float measurements[4.5];` - size declator must be integer
`int size;` - no size declator
`string names[size];` - no size definition

3. 4

4. Size declator – used in defining an array to indicate the number of elements
Subscript – used to access a specific element in an array

5. Determine whether all array references in a program are within their declared ranges. C++ doesn't perform it.

6. 1
2
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7. `#include <iostream>`
Using namespace std;

int main();
{
 const int NUM_FISH = 20;
 int fish[NUM_FISH];

 cout<< "enter the number of fish caught by the fishermans";
 cin>> fish[0];
 cin>> fish[1];
 cin>> fish[2];
 cin>> fish[3];
 cin>> fish[4];
 cin>> fish[5];

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cin>> fish[6];
cin>> fish[7];
cin>> fish[8];
cin>> fish[9];
cin>> fish[10];
cin>> fish[11];
cin>> fish[12];
cin>> fish[13];
cin>> fish[14];
cin>> fish[15];
cin>> fish[16];
cin>> fish[17];
cin>> fish[18];
cin>> fish[19];

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cout<< "the fish caught by fisherman 1 is" << " " << fish[0]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[1]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[2]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[3]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[4]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[5]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[6]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[7]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[8]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[9]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[10]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[11]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[12]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[13]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[14]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[15]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[16]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[17]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[18]\n;
cout<< "the fish caught by fisherman 1 is" << " " << fish[19]endl;

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return 0;

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}

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8. a) `int ages[10] = {5,7,9,14,15,17,18,19,21,23};`
b) `float temps[7] = {14.70,16.30,18.43,21.09,17.90,18.76,26,70};`
c) `char alpha[9] = {'J','B','L','Á','*','S','H','M','\0'};`

