

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 declarator don't have negative value
float measurements[4.5]; - size declarator must be integer
int size; - no size declarator
string names[size]; - no size definition

3. 4

4. Size declarator – 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
3
4
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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];

    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;

return 0;
}

```

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};

