**ARRAYS**

* A collection of data of same type
* First “aggregate” data type
  + Means grouping
  + int, float, double, char are simple data types
* Used for lists of like items
  + Test scores, temperatures, names, etc.
  + Avoids declaring multiple simple variables
  + Can manipulate “list” as one entity
* int arr[10] = {…}; 🡪 arr is const int pointer, you cannot modify it

\*\*You can assign any value to a pointer but be careful when you dereference it.

Accessing Arrays

* Access using index/subscript

cout << score[3];

* Note two uses of brackets:
  + In declaration, specifies SIZE of array
  + Anywhere else, specifies a subscript
* Size, subscript need not be literal

int score[MAX\_SCORES];

score[n+1] = 99;

* + - If n is 2, identical to: score[3]

arr[5] 🡪 arr + 5\*sizeof(int) ------> This is for assembly, C can understand when you say arr + 5;

int arr[10];

char \*b;

b = (char\*)arr;

b + 5 \* sizeof(int); 🡪 This will get you the fifth element of the array, if you do b + 5, it would go

just 5 bytes because char is 1 byte.

PREFER VECTORS, NOT ARRAYS WHENEVER POSSIBLE!

**Array Usage**

* Powerful storage mechanism
* Can issue command like:
  + “Do this to i’th indexed variable” where i is computed by the program
  + “Display all elements of array score”
  + “Fill elements of array score from user input”
  + “Find highest value in array score”
  + “Find lowest value in array score”

\*\*C++ will let you go beyond range!!!

* Unpredictable results
* Compiler will not detect these errors
* Up to programmer to stay in range

Why we start indexing from 0?

* arr[i] 🡪 arr + i \* sizeof(int); -----> that’s what’s happening
* If index starts from 1:
  + arr[i] 🡪 arr + (i-1) \* sizeof(int);
  + So my accessing algorithm would be 50% slower because you have to subtract 1 everytime (3 operations (+, -, \*) instead of 2 operations (+, \*)) .

\*\*Array size should be a constant, you cannot put a variable in your array size.

int k = 20;

char ch[k];

if k is const int , than you can do “char ch[k];”

Always use defined/named constant for array size.

Named constants are better because they improves readability, versatility, maintainability:

👍

const int NUMBER\_OF\_STUDENTS = 5;

int score[NUMBER\_OF\_STUDENTS];

If you use sth, we like to give a type to it. So const is clearer than #define.

Instead of arrays, we use vectors. They are very flexible to use in terms of dynamic memory and etc..

**Ranged-Based For Loop**

Format:

for (datatype varname : array){

// varname is set to each successive

// element in the array

}

Example:

int arr[] = {20, 30, 40, 50};

for (int x : arr) 🡪 OUTPUT : 20 30 40 50

cout << x << “ “;

cout << endl;

Instead of arr, we can use vector or list or anything else from the stl classes.

Example:

int arr[] = {20, 30, 40, 50};

for (int& x : arr){

cout << x << “ “;

x = 12;

}

cout << endl;

Output will be same but at the end, all elements will be 12.

**Arrays in Memory**

Sequantially-allocated

* Means addresses allocated “back-to-back”
* Allows indexing calculations
  + Simple “addition” from array beginning (index 0)

Array guarantee that elements follow each other in the memory.

Structs don’t guarantee that elements follow each other in the memory, there might be gap because of the wordsizes.

Wordsize: Minimum unit of data that you can get from the memory in a just single shot. In newer computers wordsize is 8 bytes (64 bit). There are 8 bytes in each word. When you ask the memory, memory can give you 8 bytes and your CPU can handle 8 byte data. You cannot say give me 4 bytes.

struct{

char i;

double d;

}

If there isn’t any gap between char and double, in order to get the double I have to read both the character and the double. Because character is 1 byte and if I store the double just after that 1 byte, then I am putting 2 thing in the same word. To be able to get double, I have to read both of them. Double is not fit in the 7 bytes (remaining from the char) so we need another word.

![Diagram, schematic

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDaRXhpZgAATU0AKgAAAAgABAE7AAIAAAAFAAAISodpAAQAAAABAAAIUJydAAEAAAAKAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE1lcnQAAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAMyNgAAkpIAAgAAAAMyNgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Type of a is constant int pointer.

We don’t store constants in memory so a is not in the memory. Compiler knows its value. It replaces a with its value whenever you use it.

int \*ptr = a;

for ( int i = 0; i < 6 ; ++ptr, ++i)

cout << \*ptr;

This is better than index operator because in index operator, we got 1 addition and 1 multiplication. So “cout << \*ptr; (includes dereferencing)” is cheaper than “cout << a[i]; (includes multiplication, addition and dereferencing)” because you just dereferencing it.

**Initializing Arrays**

int children[3] = {2, 12, 1};

int children[] = {5, 12, 11}; 🡪 Allocates array b to size 3

**Array as Argument : How?**

Think of array as 3 pieces:

1. Address of first indexed variable (arrName[0])
2. Array base type
3. Size of array

Only 1st and 2nd pieces are passed

* Just the beginning address of array
* Very similar to pass-by-reference

When you send name of the function, it knows the address, it knows the base type because you defined like const int pointer in parameter but function didn’t know the size so you should send size too.

With the vector, you can simply return the vector, it has own size information.

Can we do this:

ERROR! Compiler just know a’s address and its type which is int. Function doesn’t know a is an array and function doesn’t know its size.

void f(int a[]){

for (int x : a) 🡪

cout << x;

}

int main(){

int a[10] = {1, 2, 3, 4, 5, 6, 7, 8, 9};

f(a);

}

void f(int a[]) is not same as void f(const int\* a)

!!! a[5] 🡪 takes 2 parameter : index (5) and int pointer (a)

**The const Parameter Modifier**

If I don’t want my array elements to be changed, I don’t use function like this:

void fillUp(int a[], int size);

Protect array contents from modificiation

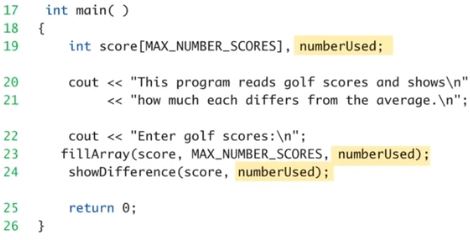
* Use “const” modifier before array parameter
  + Called “constant array parameter”
  + Tells compiler to “not allow” modifications

**Functions that Return an Array**

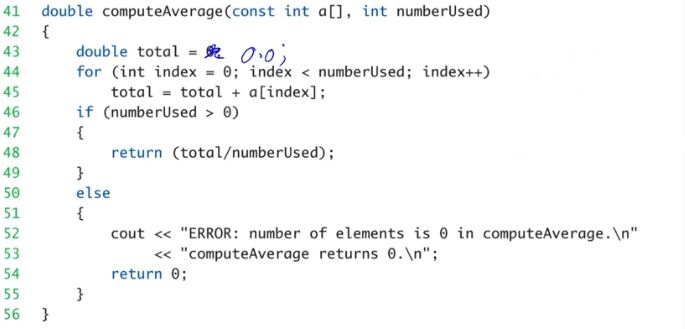
* Functions cannot return arrays same way simple types are returned
* Requires use of a “pointer”
* Will be discussed in chapter 10…

int f(int a[5]) 🡪 COMPILER ERROR

![Graphical user interface, text

Description automatically 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user interface, text, application

Description automatically 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GCyke5laGPGDIvVa5zQJhZ/wBrzRNLc2kbeYk7qd8p25YZ746Cpb1OepNxmkma2m64NQv5bRrO4t5IkDt5oGMHp0PtWrWR4cgkGnfa7pcXN23nSAjpnoPwFa9NbF0nJxvIKKKKZqFFFFABRRRQAUUUUAFFFFAEUt3bwSIk08Ubv91XcAt9AetVLnU2h1W0s4bfz1mLCWRZVHkYGRlepz7VwdsmhweL9f8A+E3tFkvZLwNZS3MDSK0GBsEZwcYPUDnNW/F0OmaR478M62bZYN8sy3N1HCSSPLAUMQM4oA7yS6gh/wBdPHH0++4HXpUteZ654ftNb8V+KJtQsftccekxtbb1JXftfkD+9056iu18J+b/AMIfpP2jd5v2SPfv652jrQBr55ozXH+MIy19B/Y9vqT62UxFJZvsRVz/AMtWb5Nue3J9KravDqC6Pp6aql1d+JAG8mTR8xhfXczfKF6Z3dewoA7mkd1jXLsFGcZJxWV4bj1uLR0XxLNby3ueTbggAdgfU+pHFYnxPtpbvwesEKysXvbYN5WdwXzRnp0470AddHPFMGMUiOFOG2sDg+lMju7aVHeK4idYzh2VwQv19K8w1HQrjSp/Gdj4UtHtVk0+3eKOFSA7/NvI9WI/Gn+EtP0aG5u7wahbSWzaaY7uxt9PeFSo6lwc5Ycj1NAHp5mjG3MijcMrlhzVHTNf07V5bqOxuFd7WdreQZx84xnHqOetec+ArG4tvEItvEtrdGGa0YaKLgl1htifmib0fG3r247VZ8FaZ4d0fxZrFrdafb2upjVJGsc25DeUVG3Y2MY696APTBIhkMYdS4GSueQPpTq5i0m0H/hZl/FBbzrrn2GNppWVvLaHd8oB6ZzXT0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAIwBBDAEe9AAAwAMelQX8YksZVZpVG3kwnDfhXK2V/cDRtaa3u5EEJIgF2f3kfy989Mnpmk3YxqVFCVmjshjtRXJ+Eb6S6vrlTNcqixpm3u2zIr85b6GusoTuh0qiqR5kFFFFM1CiiigAooqK6to7y1kt5wTHIpVgGIOD7igCWiuM+Hl8BFq2kT3by3FjqEyrBK5Z4Yd3yAseoxz+NdnQAUUUUAIVViCygkdMigqD1AP1paKADA9KOlFFABRRRQAUEZ680UUAGKQIozhQM9eOtLRQAYH5Um1S24gZHfFLRQBXSwtY9QkvkhUXUqCN5e5UdB9OasUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAQ3STvbstrIsUv8ACzLuA/CsVvDBubW+F9ds9xelS0kaBQm37uB+HeugopWTM5U4z+Ix9N0aa31J7++uFnuDEIQUj2AKDnp3NbFFFCVhwgoKyCiiimWFFFFABUVzJJFbSSQwmeRVysakAsfTJqWigDmfBGkX+l6betqsSQzXd/NcpEGDGNHbIUsOprpqKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAiubqGzt2nuZBHGgyzHtVe21ewu7V7mC6jeGPO9s4249c9Ks3AJgcIyK2PlLjIBri7ewlv4tdsppYjemZHeZeI3xgqMduBg1LbWxz1akoSSXU62x1Sy1NGaxuEmCHDbeo/CrdcjojXcnjS6eaKKJVtEWRIn3ANk4ycDnGa66iLuiqNR1I3YUUUVRsFFFFABRRXP+Or2507wNq13YzGG4ht2aOQdVPrQB0FFeaPc6vo+q3EA1i6vPtPh+W9PnEHZMo4KADgc9KpzeLr6S38KJBqm6e50W5uLpVYEs6wqVY/Q5oA9XzVTTNUtNYs/tWny+bDvaPdgj5lOCPzFeRWer69b31lJLr13OvnaazxPjDmcfODx09BT9IlvtO8PW1/ZazMty2tvDDYIV2SI05DAr1Jxk57YoA9loryS41jxVq2vau+l+fHPp+pCCFPtcccKxKwzvQ8ncuTn3GK3b2PUtc+JWo6Ous3dhZxaXBOI7YgHzGZxnP4fjQB2g1Kza6uLZbmMzWqB5kzzGpGQT+RqW1uoLy1jubWVZYZVDI6nIYHvXCWpSw8X+KY7y5G9dLt8ySkAyAIwLfnWbKusweE/Dclq07afDp+67trO5WC4zgbXG77wAzxkUAepUZry7V/FNzqK+FrbQ5b+TT9TtZJ/N89IJ5ioGFLtwDySQOTipk1LXxYaBo2uagbCW9uZ0nu45kaTy05Rd44DEYyfagDv7DVLTUnuks5fMa1mMEwwRtcdR+tXK4f4aCNY9fW3uXuohq0gWaRtxcbV5z3rd8VaveaLpS3OnxwySGQKRMshGP8AgCk0AbdFch4R8UarrmoTQalb2kSJHuUwJOpJz38xAPyrrJ4/OgePeyb1I3IcEe4NAFWw1a01Ka7jtHZmtJfJmyhGHxnHPXr2q7XEeFb24jt/FFpPqEty9jdyJA0zguqiMH+ZrD8P3+sw/wDCGand6xdXjayjrcwyYEZAiLLgAdeOvegD0fUdUtNLWBr2TyxcTLBHxnLt0FXK8dub5tYsfD+r3+sSyXl3rSbbBZB5cSq5G3YOcgDqe5qb+2fFer65qVzpvnxy2Oq+QkbXcaQLCrAENGfmJK5OfXpQB65RXl/ibxDqmleNv7KttVI06/aH7VORk6YxPQNjHz4wM9Otdnrsam90fOvNphW4yIQV/wBN4/1Zz+fFAG7RRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUARXNtDdwNDcxiSNuqt0NQRaVYQWj2sVrGkEn30C8N9fWpry7jsrSS4nOEjGT7+1cxB4pvf7Fvrq6gjS4juRBFGOg3EBc/nzUtpbmM6lOMrS3OltLC1sI/Ls4EhXOSFHU1YrA0bV7iTVZNPvJ4bljF50c0K7QRnDLjJ6Gt+mmmtCqcoyjeIUUVzfjm51DTfDc+q6VfNbS2S+Z5flB1m5A2tnkD3FM0OkoqK1lM9pFK23c6AnacjOKloAKiurWC+tZLa8hSaCQbXjcZDD0IqWigCsdOszcLcG2i81YvJV9gyE/u/T2qhbeE9Aszm00ezhOHGUhA4YYYfiK2KKAKH9haVuU/wBn2+VMZU+WODH9z/vnt6VDZ+F9D0+/a9stKtIbliWMqRANk9Tn3rVooAy7zwzomoX4vb3SrWa6GP3rxAscdMnv+NXEsLWO+e9S3jW5kjEbyhfmZQcgZ9Bk1YooAzdS8O6PrFxHPqmm211LFwjyxgkD09x7Umo+HNG1cxHUtNtrnyV2x+ZGDtHoPb2rTooAoXuhaVqNhHZX2nW01tFjy4niG1MdNo7fhUMvhfQ59Lj06bSbR7ON96QtECqt6getatFAFez0+z09HSxtordZG3ssSBQTjGePpViiigAxRRRQBmx+HtIi1KbUI9Ot1vJwVlmCAM4IwcnvUyaRp8S2ix2cKrZZ+zAIP3PGPl9ODVyigDKj8LaFFdyXUWkWaTySCVpFhAYuOQ2fXNF14Y0S+1AX13pdrNdAg+c0Q3Ejpn1x71q0UAUX0TTJbe6glsYHiu233CsgIlPq3r0FVdV8NWOr3OlS3KADS5xPAoUcMFwOew5rYooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigClqmmR6rarDM8iBXDgxtg5HSudXwhcCx1KI3LvJNcieAyPuGVIIJ/KuvoqXFPcxnRhN8zWpgaTpU6aw+oXVvFa4h8lIYiCOuWbI9TW/RRTSSKp01BWQVyvxD1AW3hO7soRO15fRmG3jhhZy7HGRwMDI7nFdVRTNClo+n2+laPbWdnbi2iijAES9F9R+dXaKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP/9k=)



else

{

cerr << “ERROR: number of elements is 0 in computeAverage.\n”

<< “computeAverage returns 0.\n”;

exit(-1);

}

is better option because average can be 0 and the caller of the function can’t understand if average is 0 or there is a problem.

![Text

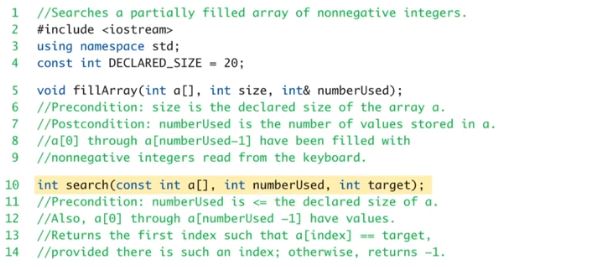
Description automatically 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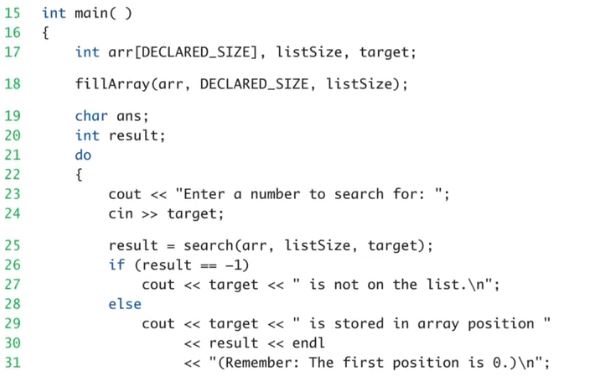
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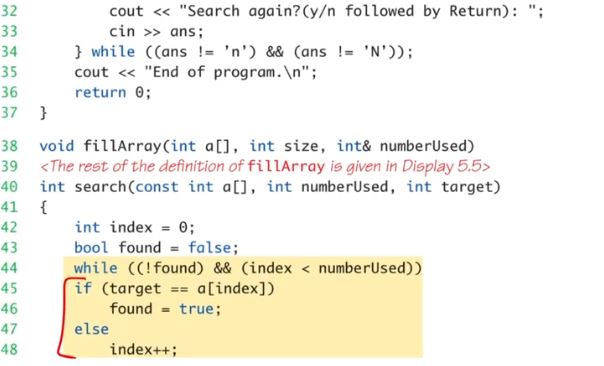
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**Global Constants vs. Parameters**

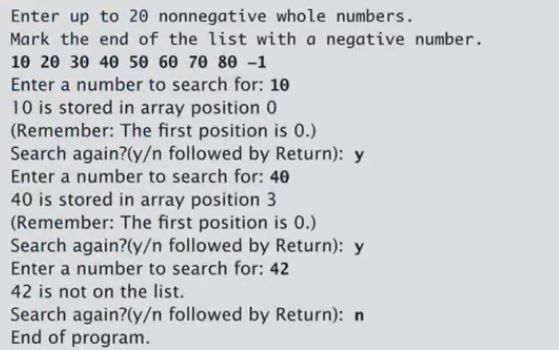
* Constants typically made “global”
  + Declared above main()
* Functions then have scope to array size constant
  + No need to send as parameter then?
    - Technically yes
  + Why should we anyway?
    - Function definition might be in separate file
    - Function might be used by other programs!



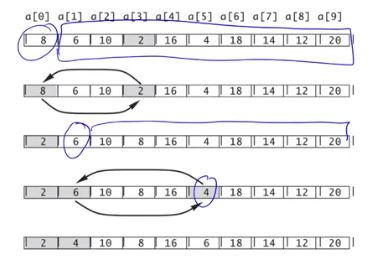








**Selection Sort Algorithm**



Complexity : O(n^2)

**Multidimensional Arrays**

* Arrays with more than 1 index
  + char page[30][100];
    - Two indexes: An “array of arrays”
    - Visualize as:

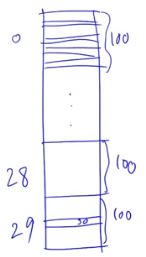
page[0][0], page[0][1], …, page[0][99]

page[1][0], page[1][1], …, page[1][99]

…

page[29][0], page[29][1], …, page[29][99]

* C++ allows any number of indexes
  + Typically no more than 2



**Multidimensional Array Parameters**

void DisplayPage(const char p[][100], int sizeDimension1)

{

for (int index1 = 0; index1 < sizeDimension1; index1++)

{

for (int index2 = 0; index2 < 100; index2++

cout << p[index1][index2];

cout << endl;

}

}

If I have 3 or 4 or more dimensional arrays, other than the first index, you have to pass all other indexes.

p + 7\*100\*sizeof(char) + 2\*sizeof(char) 🡪 p[7][2];