

Array objectives

QUESTIONS
What is the relation between arrays and pointers?
Array name itself is a pointer which refers the initial address of an array.
What is major difference between strcpy and strncpy?
Strcpy copies the entire string with null character, but strncpy copies only the specified number
of characters and does not copy the null character.
What is the purpose of double-dimensional array?
Double-dimensional array is suitable to implement the non-linear data structure, such as graph
and tree.
Which of the two is a faster searching mechanism—"binary search" or "linear search"?
Linear searching is faster than binary search, if both are implemented using a linked list. But
binary searching is faster than linear searching if both are implemented using an array.
Traversing double-dimensional array using row order or column order, which is one is
the faster mechanism?
Row order traversal of double-dimensional is faster than column order traversal, because row
order traversal is sequential traversal, whereas column order traversal is not sequential type
If base address of a double-dimensional array is given, how do we get the address of a
particular element in an array?
(<i>Note</i> : If int*[5][5], &*[0][0] is given as 500, what will
be the address of &*[3[4])
To get the address of a particular element in a double dimensional array, the following formula
is used.
Address = base address + (row number * column size + column number) * size of the array
element.
What will be size of any array in C?
The size of an array depends on the size of the segment divided by the size of the array
element.
What is the application of an array?
Application of an array is in implementing different data structures, such as stack, queue, tree,
graph and searching, sorting.
What is the difference between character array and string? String is a character array terminated with null character '\0'. So, a string is a character array
but a character array is not string.
What is the difference between char s[] and char *s?
Char s[] is an array. When a string is assigned to 's', the size is automatically taken by the
compiler looking at string size. But in char *s, 's' is a pointer. When a string is assigned to 's'
the size does not depend on the string. Its size is fixed which is 4 bytes in GCC and 2 bytes in
Turboc. That's why char s[] will be dereference, but char *s cannot be dereference.
How to add between two numbers without using arithmetic operators?
main()
char *a=5,b=6;
printf("%d", &a[b]);
}