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As you know, an array is a collection of a fixed number of values. After you announce the array, you cannot change it. Sometimes the size of the array you declared may not be sufficient. To resolve this issue, you can manually allocate memory during runtime. This programming is known as dynamic memory allocation in programming C. To dynamically allocate memory, the directory functions are malloc(), calloc(), realloc(), and free() used. These functions are defined in the <stdlib.h> header file. C malloc() The malloc name represents memory allocation. The malloc() function saves a memory block of a specified number of bytes. In 2017, after 100 00:00:00,000 ----- malek syntax () ptr = (castType*) malloc (size); Example ptr = (float*) malloc(100* size of (float)); The above statement allocates 400 bytes of memory. This is because the carriage is 4 bytes in size. In 2018, after the pointer ptr contains the address of the first byte in allocated memory. The expression is the result of a NULL pointer if the memory cannot be allocated. C calloc() the calloc name represents a continuous assignment. The malloc() function allocates memory and leaves memory uninhibited. While calloc allocates memory, all bits are initialized to zero. syntax of calloc() ptr = (castType*)calloc(n, size); Example: ptr = (float*) calloc(25, Size (float); the above statement allocates contiguous memory space for 25 float elements. Example 1: malloc() and free() // Program for calculating sum n user-entered numbers #include <stdio.h>;#include <stdlib.h>;int main() { int n, i, *ptr, sum = 0; printf(enter multiple components:); (%d, &ptr = (int*) malloc(n* size (int); if memory cannot be allocated if(ptr=NULL) { printf(error! Memory not allocated.); Port(0); } Print (Enter elements:); for (i = 0; &n; n= ++i) { = scanf(%d, = ptr= += i); = sum=*(ptr+=i); = } = printf(sum=sum+%d, sum); = deallocating= the= memory= free(ptr)= return= 0; = } = here, = we=have= dynamically= allocated= the= memory= for= n= number= of= int.= example= 2:= calloc)= and= free)= program= to= calculate= the= sum= of= n= numbers= entered= by= the= user= #include= > & <stdio.h>;#include <stdlib.h>;int main() { int n, i, *ptr, sum = 0; printf (enter some elements:); (%d, &ptr = (int*) calloc(n, size (int); if(ptr=NULL) { printf(error! Memory not allocated.); port(0); } print (enter elements:); for (i = 0; i <

overload functions. Data type language C does not allow you to declare string or Boolean data types. It supports built-in and primitive data types. C++ supports String and Boolean data types. C-nosed handling does not support the handling of outages. However, it can be performed by using certain workarounds. C++ supports the handling of outages. Furthermore, you can do this by trying to grab a block. Functions do not allow functions with default enable function arrangements with default arrangements. Namespace is absent in C. It exists in C++ . Code source code in free program source code format. Originally developed into programming language C. Relationship C is a subset of C++. It cannot run C++ code. C++ is a C. C++ subgroup that can run most of code C while C cannot run C++ code. Prevents an object-driven function-driven language from focusing on a method or process instead of data. Focus on data instead of method or procedure. Ankipisicl does not support an aqipasa. because data and functions are separate, free entities. Supports anecdotal. Data and functions wrapped together as an object. Information that hides C does not support withholding information. In this language, the data is free entities and cannot be changed outside the code. Enquisoff hides the data. This is how data structures and operators are used by intent. Memory Management C provides malloc() and calloc() functions for dynamic memory allocation. C++ provides a new operator for this purpose. Data types support built-in data types. Supports built-in, user-defined data types. Global variables allow multiple global variables to be declared. Multiple declaration of global variables is not allowed. The idea of mapping the mapping between data and function is very complicated. You can easily create the mapping between data and a function by using classes and objects. Inheritance is not supported for a possible C inheritance in the C++ language. Default header file C Use stdio.h header file. C++ uses iosteam.h as the default header file. Virtual function the concept of virtual functions are found in C. The concept of a virtual function is not used in C++. Keywords contain 32 keywords. Contains 52 keywords. Polymorphism in C. polymorphism is not possible and the concept of polymorphism is used in C++. Polymorphism is one of the most important features of OOPS. GUI Programming C offers GTK programmable tool GUI C++ supports Qt tools for GUI programs-

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