after sar coupy ! 22221100 Source

Write a program to sect an across 0,1,2 in the best possible time and space complexity	#include < bits (stalc++.h> twing recorespace stal; vaid sect (int all, int am-six) int lower : 0; int high = arr-size-1; int mid = 0; suitch (almids) {	case Oi (of lower ++], almid ++]; break; hud ++; break; y y raid print throug (int ace[], int accsive; i++) coat exact [] <= ""," int main ()	int an [72 & 1, 1, 2, 2, 0, 0, 2, 1, 23; int a 2 size of (an) (size of (an For)); sort (an n); print throay (an, n); yehrn o; }
Write a program	#indude < 1 [wing rou [wing rou [wind so int lon int high int mid int mid while [m	case o's sway brea y y y y y cente	int ar
8	A TODOLOGICA S	3 1	

I campile time polymorphism: In this, a function is called at the time of program compilation. We call this type of polymorphism as early binding or static binding function overloading and operate overloading is the type of compile time they The word polymosphism nears howing nay forms. Real-life example of polymosphism, a person at the same time can have altherent characteristics. Polymorphism is considered as one of the important couter The class " is " each everall; A). Explain the type of polymorphism with code. cont ce" The float is " cc F ecendly There are two types of polymorphism." cout es" The int is " ce i ce end! leatures of object Oriented programing. void test Cilvar coust *ch) void fest (double F) ? Long answer type auestions using name space std; void test (int i) & #include <iosheam> polymorphism.

Syntex: - come (parameter 1: parameter 2. 11 contrutes defrition Cube Ci Cent << C. side; y les example! side=10;
3 class cube public:
int side;
cuse ()

Code for delete keyward: include & bits Stolc++. h> using namespace std; int main () int a array = new int[10]; delete [] array; return o; What are constructors ? Why they are required? Explain different types of constructors with suitable example. Ans: A constructor is a member furcher of a class which initialize objects of a class. In C++, constructor is automatically called when object create : 9+ 15 special member function of class. Constructor is a special method which is invoked automatically at the time of object creation. It is used to initialize the data members of new object generally. There are three types of constructor which are following below: are following below: 1. Default constructors: Default construtor is the constructor which doesn't take any argument. It has no parameter.

Code For new boywards using namespace stali class car String name i int num; Public: car (string o, inth) & Cout < "Constructor called" < cendl; this -> name =a; this -> run = h; 3 veid enter () (in >) name; cin>> num; veid display 1) cont ce" name: " « c name « cendl; cant << " num: " << num << end); int meun () car ap = new car ("Henda", 2021); P -> display ()

name space std; Nane- Piyush Pushkar Assignment - 2 Choose the correct caption. 1. Aus) b 2. Ans) A 3. Any) (WAS. B Short answer type question:-1. Explain about new and delete keyword with Ans: New Keyword: The new operator is as operator which denotes a required request for memory allocation on the Heap. If sufficient memory is available, new operator initalize the memory and returns the address of the newly allocated and initialized memory to the painter variables. Syntax: printer-variable = new data-type; Delete layword: Delete is an operator that is used to destroy array and non-array (pointer) objects which are created by new expression. The delete eperater has void return type.