National University
of computer and emerging sciences

# TASK

```
/*

ARRAY BASED LIST
*/



#include<iostream>
#include<string>
using  namespace std;

class list{
private:
        int *arr; //will be used to initialize an empty list and will always point to the first position.
        int size; //total capcity of the list
   int len; //number of current elements in the list
   int *current; //pointer to point the current position
   int *temp; //can be used for temporary works
public:

   //Constructor for initializing List
   //You can initialize size to any value
        list(){

        }


   //overloaded constructor
   //user will pass decided the size of the list
   list(int userSize){
```

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}

//Deep Copy Constructor
//write code to create a new list and copy elements of the list passed in the parameter
	list(list& othrList){


	}


//Clear Or Empty the List
	void clear(){


	}


//Insert a Value at Specific Position
	void insert(int value,int pos){


	}

//Insert the given value in the list at the next available position
void insert(int value){

	}


//Remove a value at specific position
	void remove(int pos){



	}



//Get value stored at a specific position
	int get(int pos){

	}
```

```
    //Update Existing value at a position
        void update(int value,int pos){


        }


    //Find a value in the list
        bool find(int value){


        }


    //Return Current Length of the list
        int length(){

        }


    //Move to starting position of the list
        void start(){

        }

    //Move to the end of the list
        void end(){

        }


    //checks whehter the list is completely filled or not
    bool isFull(){

    }

    //checks whehter the list is completely empty or not
    bool isEmpty(){

    }

};

void main(){
```

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	system("pause");
}
```