

Programming Fundamentals

QUIZE 4

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Q) Understand the concept of  “linklist” and implement it using structures.

Link list is concept in c++ of linking list with each other.Each element is placed in random unique memory and linklist is the technique which is used to combine multiple element into a form of link with the help of pointer in the form of nodes.In these node its has two parts in part 1 there is a value and in part two we placed the address of next element node.We make these node with structure.

Program:

|  |
| --- |
| #include <iostream>  using namespace std;  struct Node {     int data;     struct Node \*next;  };  struct Node\* head = NULL;  void insert(int new\_data) {     struct Node\* new\_node = (struct Node\*) malloc(sizeof(struct Node));     new\_node->data = new\_data;     new\_node->next = head;     head = new\_node;  }  void display() {     struct Node\* ptr;     ptr = head;     while (ptr != NULL) {        cout<< ptr->data <<" ";        ptr = ptr->next;     }  }  int main() {     insert(3);     insert(1);     insert(7);     insert(2);     insert(9);     cout<<"The linked list is: ";     display();     return 0;  } |

Output:

