

```

1: #include<stdio.h>
2:
3: void insert(int data[],int next[],int start,int x,int len);
4: void display(int data[],int next[],int start);
5:
6:
7: void main()
8: {
9:     int data[6]={5,13,10,20,8};
10:    int next[6]={3,4,0,1,-1,-1};
11:    int start=2;
12:    insert(data,next,start,25,6);
13:    display(data,next,start);
14:    insert(data,next,start,100,6);
15: }
16:
17: void display(int data[],int next[],int start)
18: {
19:     for(int pos=start;pos!=-1;pos=next[pos]){
20:         printf("%d-->",data[pos]);
21:     }
22:     printf("NULL\n");
23: }
24:
25: void insert(int data[],int next[],int start,int x,int len)
26: {
27:     int pos=start;
28:     int count=0;
29:     int last_pos=0;
30:
31:     for(pos;pos!=-1;pos=next[pos]){
32:         count++;
33:         last_pos=pos;
34:     }
35:
36:
37:     int available=0;
38:     for(available;available<len;available++){
39:         if((next[available]==-1)&& (available!=last_pos))

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40:         {
41:             break;
42:         }
43:     }
44:
45:     if(available==len){
46:         printf("Array hosting the linkedlist is full\n");
47:     }else{
48:         next[last_pos]=available;
49:         data[available]=x;
50:     }
51: }
52:
53:
54:
55:
```