

05/22/18 11:32:46 D:\git-repos\data-structure-homework\10\e30.cpp

```

1  #include <stdio>
2  #include <iostream>
3  #include <cstring>
4
5  using namespace std;
6  struct node {
7      int data;
8      node *nxt;
9  } *hd, buffer[1007], *cur;
10 node *newnode(int data, node *xt) {
11     cur->data = data;
12     cur->nxt = xt;
13     return cur++;
14 }
15 void init() {
16     cur = buffer + 1;
17     hd = buffer;
18     hd->data = 0x7fffffff + 1;
19     hd->nxt = NULL;
20 }
21 void insert(int data) {
22     node *p = hd;
23     for (; p->nxt && p->data <= data && p->nxt->data <= data; p = p->nxt);
24     p->nxt = newnode(data, p->nxt);
25 }
26 int main() {
27     init();
28     int x;
29     while (~scanf("%d", &x))
30         insert(x);
31     for (node *p = hd->nxt; p; p = p->nxt)
32         printf("%d ", p->data);
33 }
34 /**
35 root > ... > git-repos > data-structure-homework > 10 > 2 > g++ e30.cpp -g
36 root > ... > git-repos > data-structure-homework > 10 > 2 > ./a.out < master
37 23 14 3 53 52 3214 243 321 245 2 43 242 52
38 2 3 14 23 43 52 52 53 242 243 245 321 3214
39 root > ... > git-repos > data-structure-homework > 10 > 2 >
40 */

```