PRACTICE PROG:

```
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>

struct node

int info;
struct node *link;
};

typedef struct node *NODE;

NODE getnode()

**re(NODE) mallor(sizeof(struct node));

if(x=NULL)

**re(NODE) mallor(sizeof(struct node));

**print*("mem full\n");
exi*(0);
}

return x;
}

NODE treurn x;

NODE insert_front(NODE first,int item)

**NODE temp;
temp=getnode();
temp-sinfo-item;
temp-sinfo-item;

**temp-sinfo-item;
**temp-sinfo-item
```

OUTPUT:

```
1:Insert_front
 2:Delete_rear
 3:count
 4:sort
 5.search
 6:display_list
 7:Exit
enter the choice
enter item to be inserted at front end
 1:Insert_front
 2:Delete_rear
 3:count
 4:sort
 5.search
 6:display_list
 7:Exit
enter the choice
enter item to be inserted at front end
1:Insert_front
2:Delete_rear
 3:count
 4:sort
```

```
5.search
6:display_list
7:Exit
enter the choice
enter item to be inserted at front end
1:Insert_front
2:Delete_rear
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4:sort
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6:display_list
7:Exit
enter the choice
enter item to be inserted at front end
1:Insert_front
2:Delete_rear
3:count
4:sort
5.search
6:display_list
enter the choice
```

```
enter the choice
enter item to be inserted at front end
 1:Insert_front
 2:Delete_rear
 3:count
 4:sort
 5.search
 6:display_list
 7:Exit
enter the choice
 1:Insert_front
 2:Delete_rear
3:count
 4:sort
 5.search
 6:display_list
 7:Exit
enter the choice
```

```
enter the choice
no of items in list: 5
1:Insert_front
 2:Delete_rear
 3:count
 4:sort
 5.search
 6:display_list
 7:Exit
enter the choice
press 1 for ascending order and 2 for descending order
 1:Insert_front
 2:Delete_rear
 3:count
 4:sort
 5.search
 6:display_list
 7:Exit
enter the choice
```

```
1:Insert_front
2:Delete_rear
 3:count
 4:sort
5.search
 6:display_list
7:Exit
enter the choice
enter element to be serached for
SEARCH UNSUCCESSFULL
1:Insert_front
2:Delete_rear
 3:count
4:sort
 5.search
6:display_list
7:Exit
enter the choice
enter element to be serached for
3
SEARCH SUCCESSFULL
1:Insert_front
2:Delete_rear
```

```
1:Insert_front
2:Delete_rear
3:count
4:sort
5.search
6:display_list
7:Exit
enter the choice
7
...Program finished with exit code 0
Press ENTER to exit console.
```