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```c
#include<stdio.h>
#include<conio.h>
#include<process.h>
#define qsize 5
int f=0,r=-1,ch;
int item,q[10];

int isfull()
  {
   return(r==qsize-1)?1:0;
  }
int isempty()
  {
   return(f>r)?1:0;
  }
void insert_rear()
  {
   if(isfull())
     {
      printf("queue overflow\n");
      return;
     }
   r=r+1;
   q[r]=item;
  }
void delete_front()
  {
   if(isempty())
     {
      printf("queue empty\n");
      f=0;
```

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```
26  void delete_front()
27    {
28     if(isempty())
29       {
30        printf("queue empty\n");
31        f=0;
32        r=-1;
33        return;
34       }
35     printf("item deleted is %d\n",q[(f)++]);
36    }
37  void insert_front()
38    {
39     if(f!=0)
40       {
41        f=f-1;
42        q[f]=item;
43        return;
44       }
45      else if((f==0)&&(r==-1))
46       {
47        q[++(r)]=item;
48        return;
49       }
50      else
51        printf("insertion not possible\n");
52    }
53  void delete_rear()
54    {
55     if(isempty())
56       {
```

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Sym | linearqueues.c | stringqueues.c | circularqueues.c | dequeues.c | inputrestricteDE.c | outputrestricetedDE.c

```
53  void delete_rear()
54    {
55     if(isempty())
56       {
57        printf("queue is empty\n");
58        f=0;
59        r=-1;
60        return;
61       }
62     printf("item deleted is %d\n",q[(r)--]);
63    }
64  void display()
65    {
66     int i;
67     if(isempty())
68       {
69        printf("queue empty\n");
70        return;
71       }
72     for(i=f;i<=r;i++)
73      printf("%d\n",q[i]);
74    }
75  int main()
76   {
77    for(;;)
78     {
79      printf("1.insert_rear\n2.insert_front\n3.delete_rear\n4.delete_front\n5.display\n6.exit\n");
80      printf("enter choice\n");
81      scanf("%d",&ch);
82      switch(ch)
83        {
```

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53  void delete_rear()
54    {
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56       {
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58        f=0;
59        r=-1;
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62     printf("item deleted is %d\n",q[(r)--]);
63    }
64  void display()
65    {
66     int i;
67     if(isempty())
68       {
69        printf("queue empty\n");
70        return;
71       }
72     for(i=f;i<=r;i++)
73      printf("%d\n",q[i]);
74    }
75  int main()
76   {
77    for(;;)
78     {
79      printf("1.insert_rear\n2.insert_front\n3.delete_rear\n4.delete_front\n5.display\n6.exit\n");
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82      switch(ch)
83        {
```

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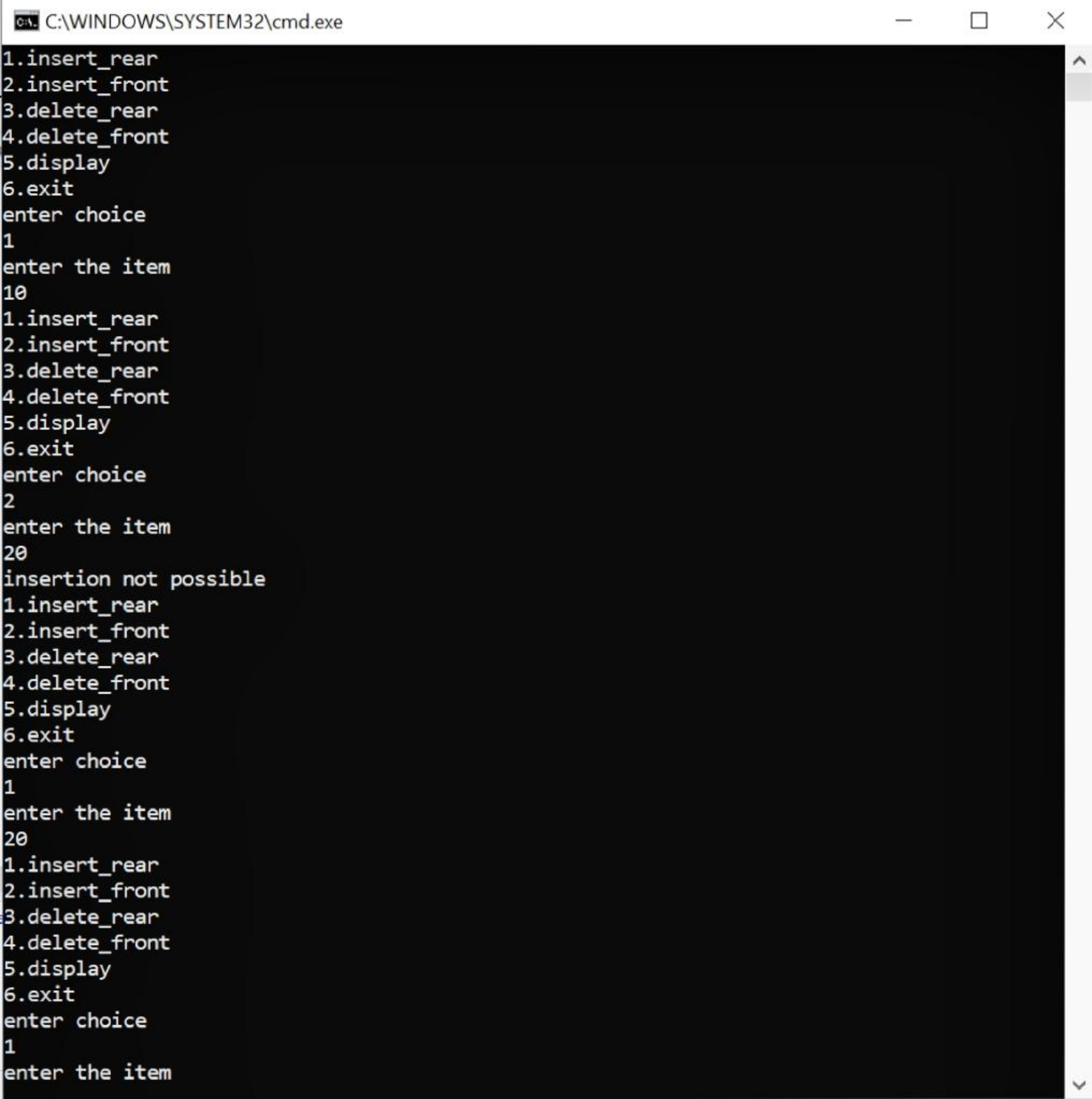
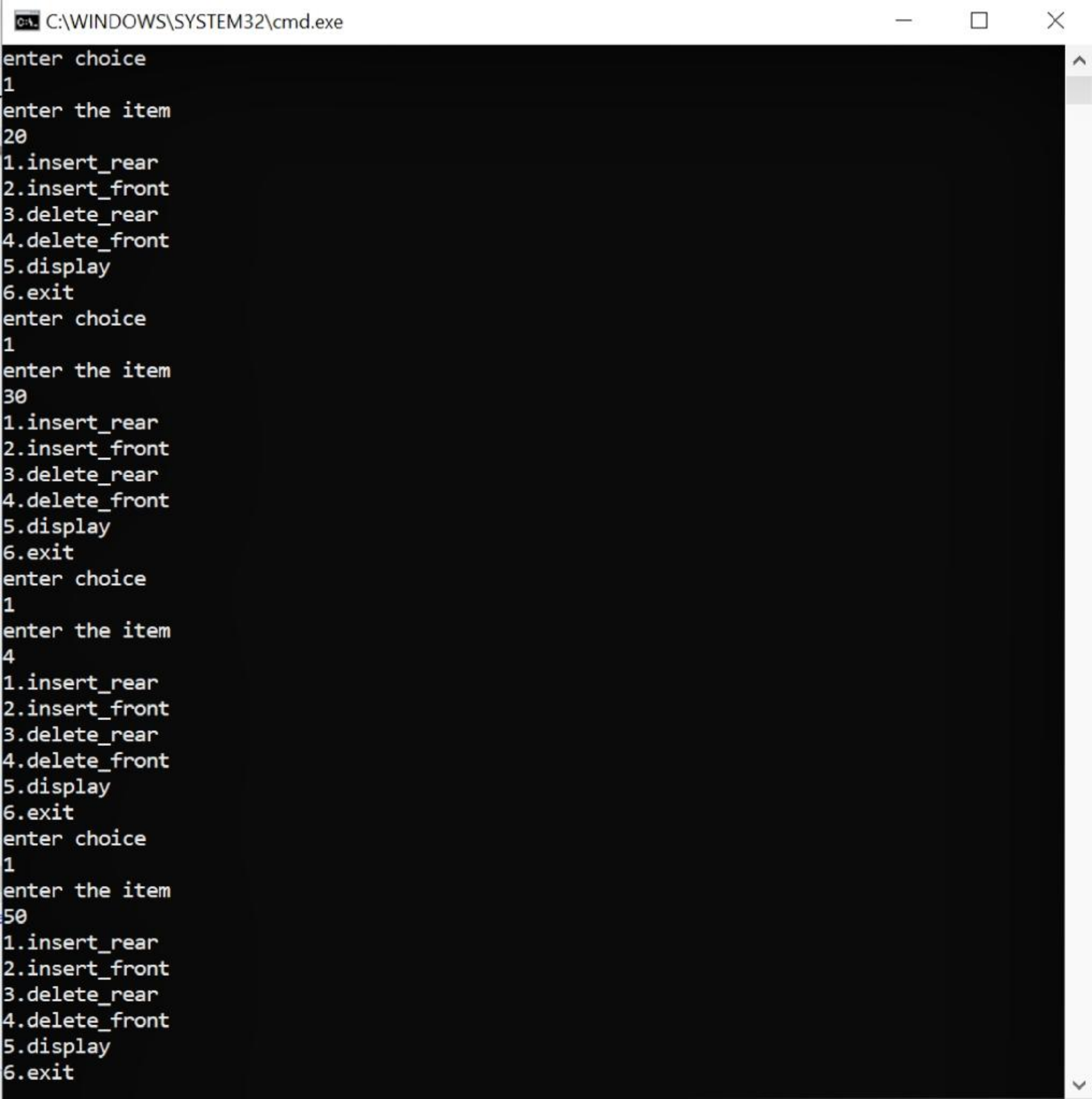
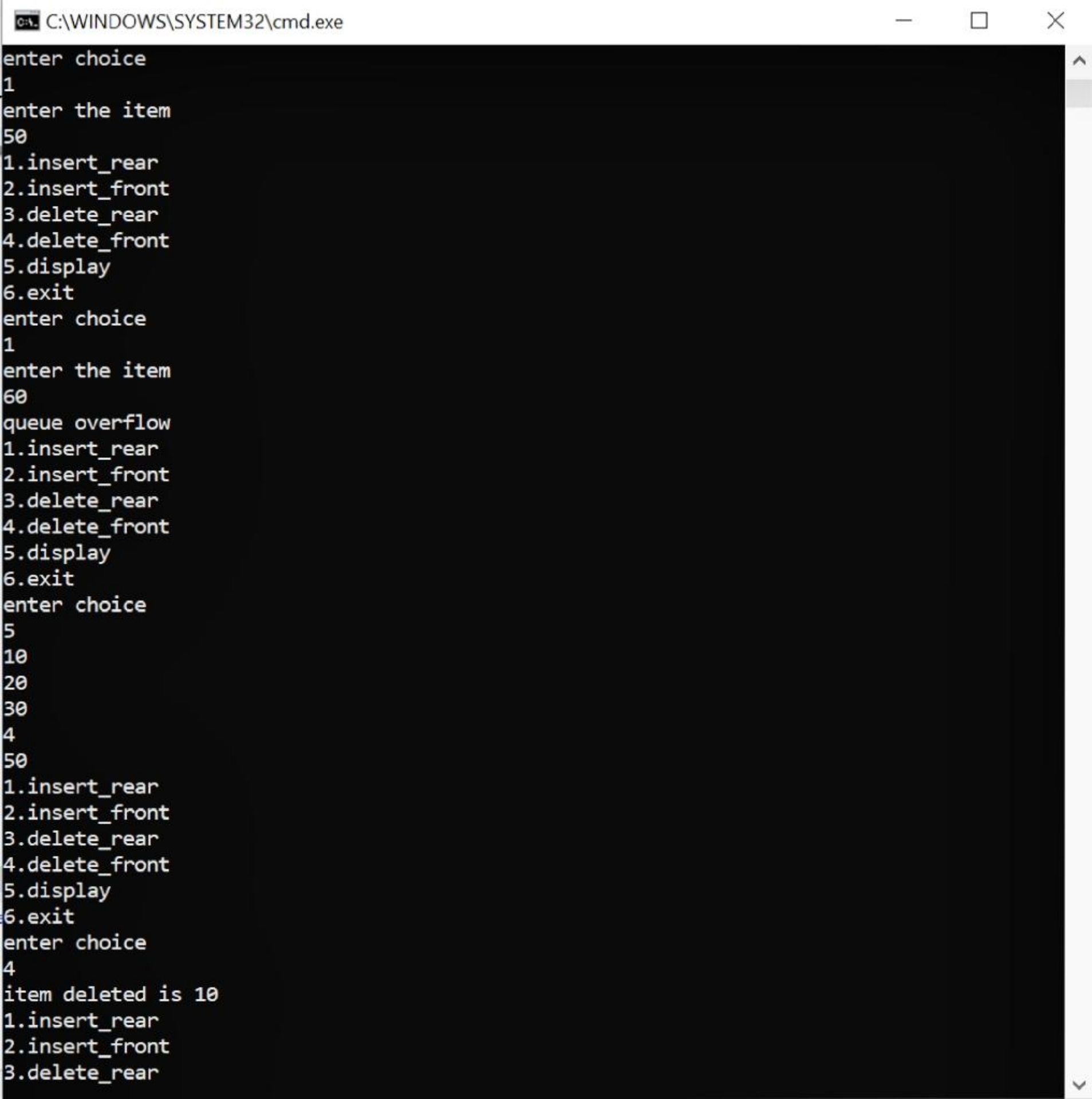
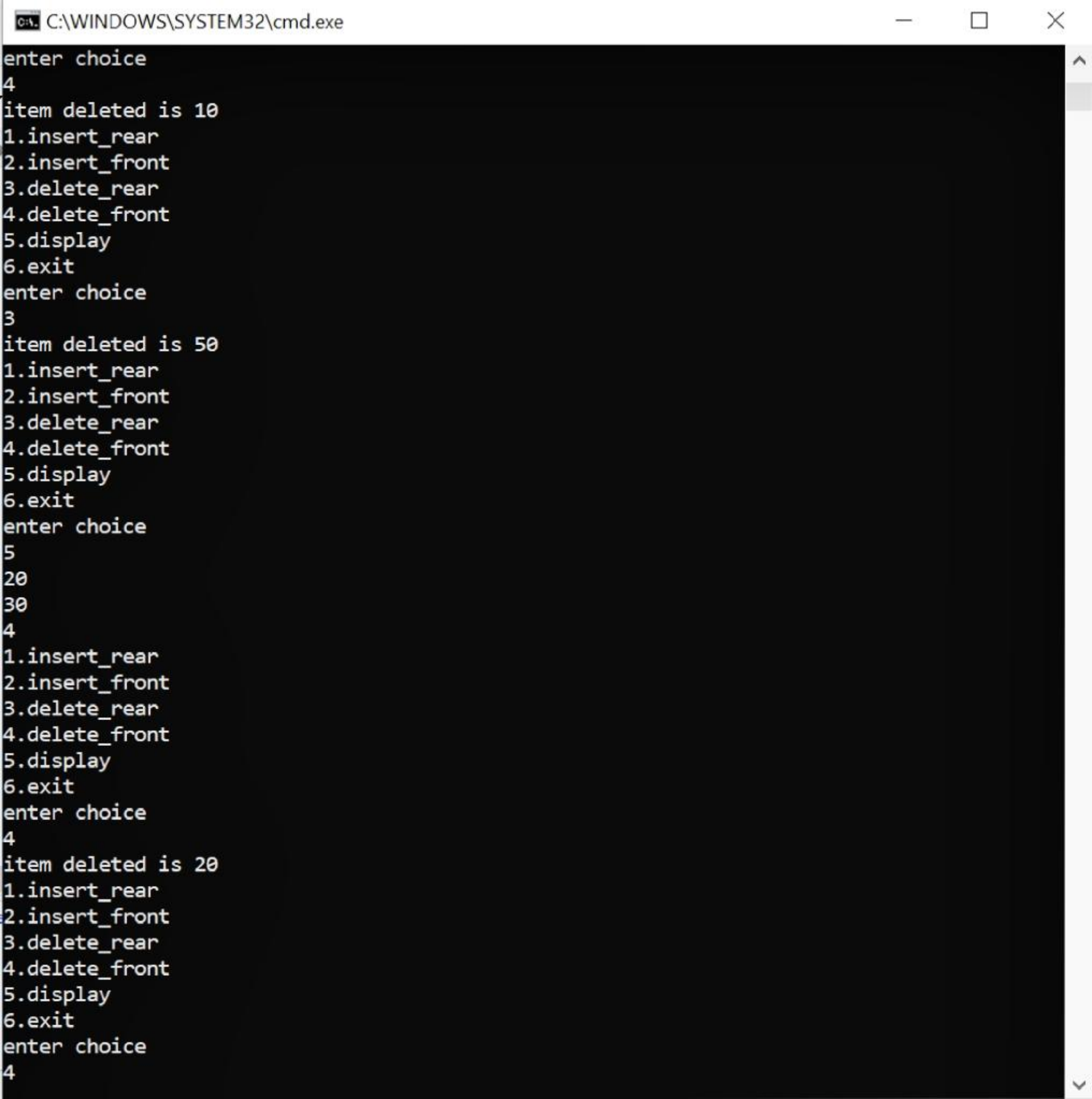
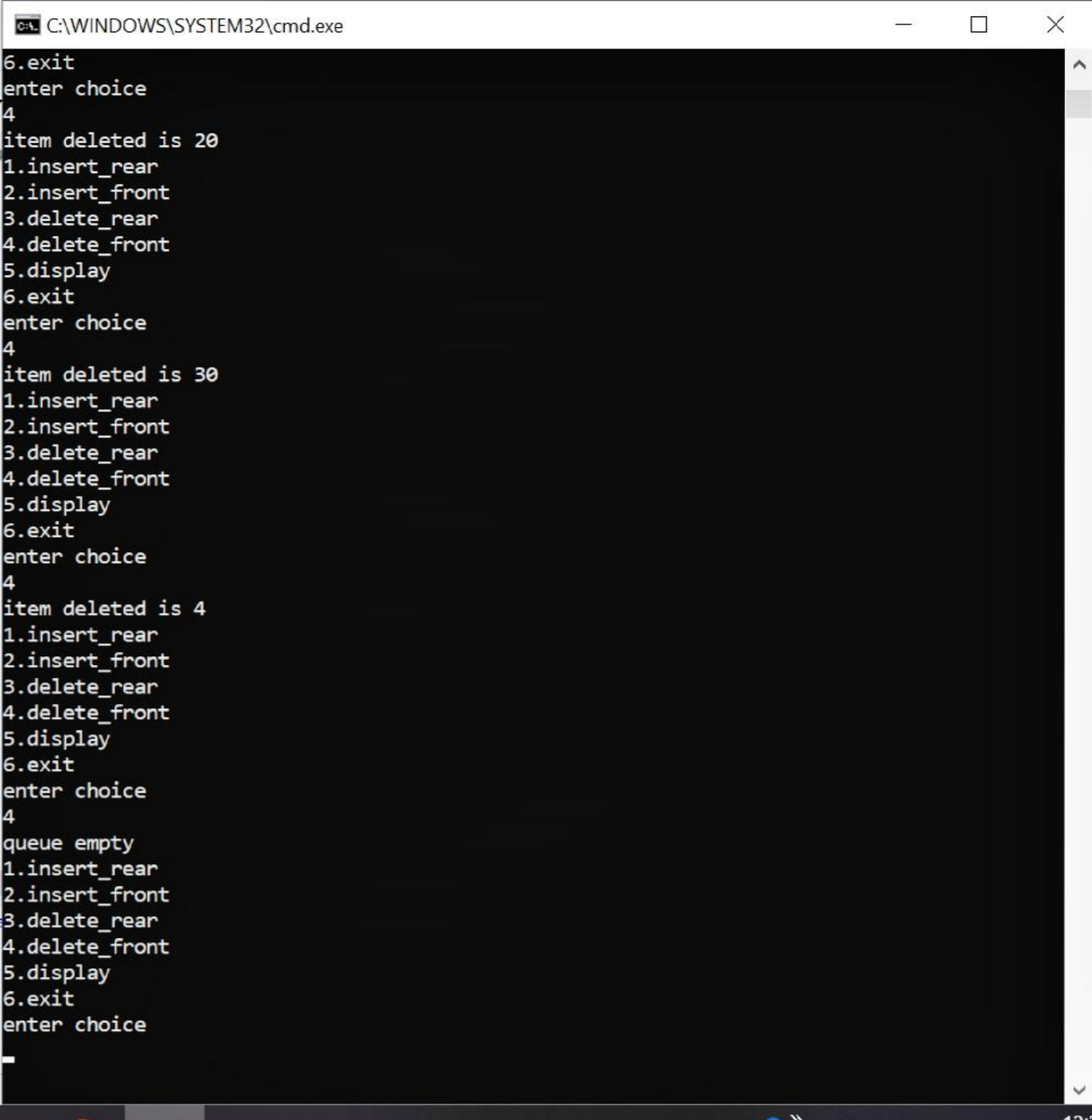
```
  }
int main()
 {
  for(;;)
   {
    printf("1.insert_rear\n2.insert_front\n3.delete_rear\n4.delete_front\n5.display\n6.exit\n");
    printf("enter choice\n");
    scanf("%d",&ch);
    switch(ch)
      {
       case 1:printf("enter the item\n");
              scanf("%d",&item);
              insert_rear();
              break;
       case 2:printf("enter the item\n");
              scanf("%d",&item);
              insert_front();
              break;
       case 3:delete_rear();
              break;
       case 4:delete_front();
              break;
       case 5:display();
              break;
       default:exit(0);
      }
   }
  return 0;
 }
```


C:\WINDOWS\SYSTEM32\cmd.exe
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
1
enter the item
10
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
2
enter the item
20
insertion not possible
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
1
enter the item
20
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
1
enter the item


C:\WINDOWS\SYSTEM32\cmd.exe
enter choice
1
enter the item
20
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
1
enter the item
30
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
1
enter the item
4
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
1
enter the item
50
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit


C:\WINDOWS\SYSTEM32\cmd.exe
enter choice
1
enter the item
50
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
1
enter the item
60
queue overflow
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
5
10
20
30
4
50
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
4
item deleted is 10
1.insert_rear
2.insert_front
3.delete_rear


C:\WINDOWS\SYSTEM32\cmd.exe
enter choice
4
item deleted is 10
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
3
item deleted is 50
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
5
20
30
4
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
4
item deleted is 20
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
4


C:\WINDOWS\SYSTEM32\cmd.exe
6.exit
enter choice
4
item deleted is 20
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
4
item deleted is 30
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
4
item deleted is 4
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
4
queue empty
1.insert_rear
2.insert_front
3.delete_rear
4.delete_front
5.display
6.exit
enter choice
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