```
#include <stdio.h>
 #include <stdlib.h>
 #define SIZE 3
 int PQ[SIZE];
 int count = 0;
 int flag = 0;
pvoid insert rear(int pr) {
    int i = \overline{0};
       if (count == SIZE)
            printf("Queue Overflow\n");
            return;
       if (count == 0)
           PQ[count++] = pr;
     else
           for (i = count - 1; i >= 0; i-- )
            if (pr>PQ[i]) {
             PQ[i+1] = PQ[i];
           else
            break;
           PQ[i+1] = pr;
          count++;
 int Remove_Big()
  return PQ[flag++];
```

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```
37
    ₽{
38
      return PO[flag++];
39
     void display()
40
41
    □ {
42
      int i;
43
     if (count==0)
44
    占(
45
      printf("Queue is Empty\n");
46
      return;
47
     printf("Contents of Queue: \n");
     for (i=flag; i < count; i++)
49
50
    白{
51
      printf("%d\n", PQ[i]);
52
53
54
    main()
56
         int choice, item;
57
         for(;;)
58
59
             printf("\n1:Insert Rear\n2:Remove Big\n3:Display\n4:Exit\n");
             printf("Enter the choice :\n");
60
             scanf("%d", &choice);
61
62
             switch (choice)
63
64
                  case 1:printf("Enter the Item to be Inserted :\n");
65
                  scanf("%d", &item);
66
                  insert_rear(item);
                  break;
67
                  case 2:item=Remove Big();
68
                  if (item==-1)
69
                  printf("Queue is Empty\n");
71
                  else
                  printf("Item Deleted=%d\n",item);
73
                 break;
                  case 3:display();
```

```
printf("Contents of Queue: \n");
 for (i=flag; i < count; i++)
  printf("%d\n", PQ[i]);
main()
     int choice, item;
     for(;;)
         printf("\n1:Insert Rear\n2:Remove Big\n3:Display\n4:Exit\n");
         printf("Enter the choice :\n");
         scanf ("%d", &choice);
         switch (choice)
             case 1:printf("Enter the Item to be Inserted :\n");
             scanf("%d", &item);
             insert rear(item);
             break;
             case 2:item=Remove Big();
             if(item==-1)
             printf("Queue is Empty\n");
             else
             printf("Item Deleted=%d\n",item);
             break:
             case 3:display();
             break:
             default:exit (0);
```

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```
1:Insert_Rear
2:Remove_Big
3:Display
4:Exit
Enter the choice :
Enter the Item to be Inserted :
1:Insert_Rear
2:Remove_Big
3:Display
4:Exit
Enter the choice :
Enter the Item to be Inserted:
10
1:Insert_Rear
2:Remove_Big
3:Display
4:Exit
Enter the choice :
Enter the Item to be Inserted :
15
1:Insert Rear
2:Remove_Big
3:Display
4:Exit
Enter the choice :
3
Contents of Queue:
15
10
5
1:Insert_Rear
2: Remove Big
3:Display
4:Exit
Enter the choice :
Item Deleted=15
1:Insert_Rear
2:Remove_Big
3:Display
4:Exit
Enter the choice :
```

```
Select C:\WINDOWS\SYSTEM32\cmd.exe
Enter the choice :
2
Item Deleted=10
1:Insert_Rear
2:Remove_Big
3:Display
4:Exit
Enter the choice :
2
Item Deleted=5
1:Insert_Rear
2:Remove_Big
3:Display
4:Exit
Enter the choice :
2
Item Deleted=0
1:Insert_Rear
2:Remove_Big
3:Display
4:Exit
Enter the choice :
2
Queue is Empty
1:Insert_Rear
2:Remove_Big
3:Display
4:Exit
Enter the choice :
4
(program exited with code: 0)
Press any key to continue \dots
```