

queue.c [linear_queue] - Code::Blocks 20.03

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INT_MAX

Management

Projects Files FSymbols

Workspace

- one
 - Sources
 - linear_queue
 - circular_queue
 - Sources
 - circ_queue.c

queue.c X circ_queue.c X

```
1 #include<stdio.h>
2 #include<stdlib.h>
3 #define SIZE 3
4 int front = -1, rear = -1, queue[SIZE];
5
6 void insert(int n);
7 int delete_element();
8 void display();
9
10 int main()
11 {
12     int opt, n, val;
13     while(1)
14     {
15         printf("\nEnter your choice to perform linear queue operation:\n");
16         printf("Enter:\n1.Inserting element\n2.Deleting element\n3.Displaying queue elements\n4.Exit\n");
17         scanf("%d", &opt);
18         switch(opt)
19         {
20             case 1: printf("Enter the element to insert:");
21                     scanf("%d", &n);
22                     insert(n);
23                     break;
24             case 2: val = delete_element();
25                     if(val != 0)
26                     {
27                         printf("Deleted element is %d\n", val);
28                     }
29                     break;
30             case 3: display();
31                     break;
32             case 4: exit(0);
33         }
34     }
35     return 0;
36 }
37
38 void insert(int n)
39 {
40     if(rear == SIZE - 1)
```

Logs & others

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Checking for existence: D:\BM23CS245\circular_queue\bin\Debug\circular_queue.exe

Set variable: PATH=.;C:\MinGW\bin;C:\MinGW\bin;C:\Windows\System32;C:\Windows\System32\wbem;C:\Users\Admin\AppData\Local\Programs\Python\Python312\Scripts;C:\Users\Admin\AppData\Local\Programs\Python\Python312;C:\Program Files\Common Files\Oracle\Java\javapath;C:\Windows\System32\WindowsPowerShell\v1.0;C:\Windows\System32\OpenSSH;C:\Program Files\CodeBlocks\MinGW\bin;C:\Users\Admin\Downloads\mongosh-1.6.2-win32-x64 (1)\mongosh-1.6.2-win32-x64\bin;C:\Users\Admin\Downloads\mongod-atlas-cli-1.4.0_windows_x86_64\bin;C:\Program Files\Java\jdk-19\bin;C:\Program Files\Git\cmd;C:\Program Files\Docker\Docker\resources\bin;C:\Program Files\nodejs;C:\ProgramData\chocolatey\bin;C:\Users\Admin\anaconda3;C:\Users\Admin\anaconda3\Library\mingw-w64\bin;C:\Users\Admin\anaconda3\Library\usr\bin;C:\Users\Admin\anaconda3\Library\bin;C:\Users\Admin\anaconda3\Scripts;C:\Program Files\MySQL\MySQL Shell 8.0\bin;C:\Users\Admin\AppData\Local\Microsoft\WindowsApps;C:\Program Files\MySQL\MySQL Workbench 8.0;C:\Users\Admin\AppData\Local\Programs\Microsoft VS Code\bin;D:\MONGODB\mongosh-1.6.2-win32-x64\mongosh-1.6.2-win32-x64\bin;C:\Users\Admin\AppData\Local\GitHubDesktop\bin;C:\Users\Admin\AppData\Local\Programs\mongosh;C:\Program Files\R\R-4.3.3\bin;C:\Users\Admin\AppData\Roaming\npm

Executing: "C:\Program Files\CodeBlocks\cb_console_runner.exe" "D:\BM23CS245\circular_queue\bin\Debug\circular_queue.exe" (in D:\BM23CS245\circular_queue\.)

D:\BM23CS245\linear_queue\queue.c

C/C++ Windows (CR+LF) WINDOWS-1252 Line 29, Col 27, Pos 838 Insert Read/Write default

10:45 23-10-2024

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INT_MAX <global> main(): int

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```
37 void insert(int n)
38 {
39     if(rear == SIZE - 1)
40     {
41         printf("overflow");
42         return;
43     }
44
45     if (front == -1 && rear == -1)
46     {
47         front = 0;
48         rear = 0;
49     }
50
51     else{
52         rear = rear +1;
53     }
54     queue[rear] = n;
55     printf("inserted element = %d\n", queue[rear]);
56 }
57
58 int delete_element()
59 {
60     if(front == -1 && rear == -1)
61     {
62         printf("underflow");
63         return 0;
64     }
65     int val = queue[front];
66     if (front == rear)
67     {
68         front = -1;
69         rear = -1;
70     }
71     else
72     {
73         front = front + 1;
74     }
75     return val;
76 }
```

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INT_MAX <global> main(): int

Management Projects Files FSymbols

Workspace one Sources linear_queue circular_queue Sources circ_queue.c

```
53 }
54 queue[rear] = n;
55 printf("inserted element = %d\n", queue[rear]);
56 }
57
58 int delete_element()
59 {
60     if(front == -1 && rear == -1)
61     {
62         printf("underflow");
63         return 0;
64     }
65     int val = queue[front];
66     if (front == rear)
67     {
68         front = -1;
69         rear = -1;
70     }
71     else
72     {
73         front = front + 1;
74     }
75     return val;
76 }
77
78 void display()
79 {
80     if(front == -1 && rear == -1)
81     {
82         printf("queue is empty");
83         return;
84     }
85     printf("Queue:\n");
86     for (int i = front; i <= rear; i++)
87     {
88         printf("%d\t", queue[i]);
89     }
90 }
91 }
```

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D:\BM23CS245\linear_queue\queue.c C/C++ Windows (CR+LF) WINDOWS-1252 Line 29, Col 27, Pos 838 Insert Read/Write default

10:45 23-10-2024

D:\1BM23CS245\linear_queue\bin\Debug\linear_queue.exe

enter your choice to perform linear queue operation:

enter:

- 1.inserting element
- 2.deleting element
- 3.displaying queue elements
- 4.exit

2

underflow

enter your choice to perform linear queue operation:

enter:

- 1.inserting element
- 2.deleting element
- 3.displaying queue elements
- 4.exit

3

queue is empty

enter your choice to perform linear queue operation:

enter:

- 1.inserting element
- 2.deleting element
- 3.displaying queue elements
- 4.exit

1

enter the element to insert:1

inserted element = 1

enter your choice to perform linear queue operation:

enter:

- 1.inserting element
- 2.deleting element
- 3.displaying queue elements
- 4.exit

1

enter the element to insert:2

inserted element = 2

enter your choice to perform linear queue operation:

enter:

- 1.inserting element
- 2.deleting element
- 3.displaying queue elements
- 4.exit

3

Queue:

1

2

enter your choice to perform linear queue operation:

enter:

- 1.inserting element
- 2.deleting element
- 3.displaying queue elements
- 4.exit

2

deleted element is 1

enter your choice to perform linear queue operation:

enter:

- 1.inserting element
- 2.deleting element
- 3.displaying queue elements
- 4.exit

2

deleted element is 2



Search



ENG
IN



10:47
23-10-2024



D:\1BM23CS245\linear_queue\bin\Debug\linear_queue.exe

```
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
2
deleted element is 1

enter your choice to perform linear queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
2
deleted element is 2

enter your choice to perform linear queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
3
queue is empty
enter your choice to perform linear queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
1
enter the element to insert:4
inserted element = 4

enter your choice to perform linear queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
1
enter the element to insert:5
inserted element = 5

enter your choice to perform linear queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
3
Queue:
4      5
enter your choice to perform linear queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
```



Search



ENG
IN



10:47
23-10-2024

