

queue.c (linear\_queue) - Code::Blocks 20.03

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Debugglobalmain(): int

INT\_MAX

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one

Sources

linear\_queue

Sources

queue.c

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

4int front = -1, rear = -1, queue[SIZE];

5

6void insert(int n);

7int delete\_element();

8void display();

9

10int main()

11{

12int opt, n, val;

13while(1)

14{

15printf("\nenter your choice to perform linear queue operation:\n");

16printf("enter:\n1.inserting element\n2.deleting element\n3.displaying queue elements\n4.exit\n");

17scanf("%d", &opt);

18switch(opt)

19{

20case 1: printf("enter the element to insert:");

21scanf("%d", &n);

22insert(n);

23break;

24case 2: val = delete\_element();

25if(val != 0)

26{

27printf("deleted element is %d\n", val);

28}

29break;

30case 3: display();

31break;

32case 4: exit(0);

33}

34}

35return 0;

36}

37

38void insert(int n)

39{

40if(rear == SIZE - 1)

Logs & others

Code::Blocks XSearch results XCccc XBuild log XBuild messages XCppCheck/Vera++ XCppCheck/Vera++ messages XScope XDebugger XDoxyBlocks XFortran info XClosed files list XThread search X

Checking for existence: D:\1BM23CS245\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\mongodb-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\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:\1BM23CS245\circular\_queue\bin\Debug\circular\_queue.exe" (in D:\1BM23CS245\circular\_queue\..)

D:\1BM23CS245\linear\_queue\queue.cC/C++Windows (CR+LF)WINDOWS-1252Line 29, Col 27, Pos 838InsertRead/Write defaultENG IN23-10-2024



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```
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 void display()
78 {
79     if(front == -1 && rear == -1)
80     {
81         printf("queue is empty");
82         return;
83     }
84     printf("Queue:\n");
85     for (int i = front; i <= rear; i++)
86     {
87         printf("%d\t", queue[i]);
88     }
89 }
90
91
```

Logs & others

Code::Blocks x Search results x Cccc x Build log x Build messages x CppCheck/Vera++ x CppCheck/Vera++ messages x Cscope x Debugger x DoxyBlocks x Fortran info x Closed files list x Thread search x

Checking for existence: D:\IBM23CS245\circular\_queue\bin\Debug\circular\_queue.exe

Set variable: PATH=.;C:\MinGW\bin;C:\MinGW\bin\i686-pc-windows-gnu\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\mongodb-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;D:\MONGODB\mongosh-1.6.2-win32-x64;D:\MONGODB\mongosh-1.6.2-win32-x64\bin;C:\Users\Admin\AppData\Roaming\npm

Executing: "C:\Program Files\CodeBlocks\cb\_console\_runner.exe" "D:\IBM23CS245\circular\_queue\bin\Debug\circular\_queue.exe" (in D:\IBM23CS245\circular\_queue\.)

D:\IBM23CS245\linear\_queue\queue.c

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

10:44 23-10-2024

```
D:\1BM23CS245\circular_queue\bin\Debug\circular_queue.exe
enter your choice to perform circular queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
2
underflow
enter your choice to perform circular queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
3
queue is empty
enter your choice to perform circular queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
1
enter the element to insert:11
inserted element = 11
enter your choice to perform circular queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
1
enter the element to insert:22
inserted element = 22
enter your choice to perform circular queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
1
enter the element to insert:33
inserted element = 33
enter your choice to perform circular queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
3
Circular Queue:
11    22    33
enter your choice to perform circular queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
2
```



```
D:\1BM23CS245\circular_queue\bin\Debug\circular_queue.exe
4.exit
1
enter the element to insert:33
inserted element = 33

enter your choice to perform circular queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
3
Circular Queue:
11    22    33
enter your choice to perform circular queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
2
deleted element is 11

enter your choice to perform circular queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
1
enter the element to insert:44
inserted element = 44

enter your choice to perform circular queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
3
Circular Queue:
22    33    44
enter your choice to perform circular queue operation:
enter:
1.inserting element
2.deleting element
3.displaying queue elements
4.exit
4

Process returned 0 (0x0)   execution time : 62.984 s
Press any key to continue.
```



Search



ENG  
IN



10:44  
23-10-2024

