## Queue

## C:\WINDOWS\system32\cmd.exe

```
Microsoft Windows [Version 10.0.17134.345]
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C:\Users\Microsoft>cd C:\Borland\BCC55\Bin

C:\Borland\BCC55\Bin>notepad queue.cpp

C:\Borland\BCC55\Bin>bcc32 queue.cpp

Borland C++ 5.5.1 for Win32 Copyright (c) 1993, 2000 Borland queue.cpp:

Turbo Incremental Link 5.00 Copyright (c) 1997, 2000 Borland

C:\Borland\BCC55\Bin>queue

Queue 1:

Front=> 1 4 7 <=Rear

Queue 2:

Front=> 2 5 8 <=Rear

Queue 3:

Front=> 3 6 9 <=Rear

C:\Borland\BCC55\Bin>

C:\Borland\BCC55\Bin>
```

## Code ที่ปรับแล้ว

```
queue.cpp ที่ปรับแล้ว (เขียนของเพื่อให้รู้ คำแหน่ได้ทา)
       #include < oldio.h>
      * include < stdlib.h>
 2
       typedef struct node
  4
          void · dataPtr;
  5.
          struct node next:
  6.
       GUEUE_NODE;
  7
     typedef struct
  9.
            QUEUE_NODE * front;
  10
  11
            QUEUE_NODE "reat:
            int count:
  12
       } QUEUE;
  13
      QUEUE * CreateQueue(void);
  14
       bool enqueue ( QUEUE * queue, void * itemPtr);
  15
       Void print Queue (QUEUE * stack);
  16
       int main (void)
  17
  18
             QUEUE * queue 1;
  19
             QUEUE * queue 2;
 20
             QUEUE * queue 3;
  21
 22
             int + num Ptr;
             int * item Ptr;
 23
 24
       queue1 = Create Queue();
 25
       queue 2 = create Queue();
       queue 3 = create Queue();
 26
       int i=1;
 27
       numftr = (int*) malloc ( size of (i));
 28
       *numptr = i;
 25
       enqueue (queue1, numptr);
 30
 31
       1 = 4:
       numetr = (int *) malloc(sizeof(i));
 32
       * numPtr = i:
 33
      enqueue (queue1, numftr);
34
35
       i=7;
      num Ptr = (int*) malloc (size of (i));
36
```

```
37.
          * numptr = i;
  38.
          enqueue (queuer, numftr);
  39.
          1= 2;
         numffr = cint * ) malloc (size of ci));
  40
         * numftr = i;
  41
         emueve (queve 2, numptr);
  42
  43
         i= 5;
         numptr = ( int*) malloc(size of(i));
  44
  48
         *numPtr= i:
  46
         enqueue (queue 2, num Ptr);
  47
         i= 8;
         numpfr = (int*) malloc(sizeof(i));
  48
        *numptr = i;
  49
         enqueve (quevez,
  50
  51
         1=3:
        numPf+ = (int *) malloc(sizeof(i));
  32
        * numPtr = i;
  33
  54
         enqueue (queue 3, numptr)-,
  33
         i = 6;
         numptr = (int *) malloc (size of (i));
  56
  57
         *numftr = i;
  58
         enqueue (queue 3, numftr);
  59
         numPtr = cint*) malloc (size of (i));
  60
        * numPtr = i;
  61
         enqueue (queue 3, numftr);
  62
        printf ("Queue 1: \n");
 63
        print Queve (queve1);
 64
        printf ("Queve 2: \n");
 65
        print Queue (queue2);
 66
        print("Queve a: \n"):
67
        print Queve (queve 3);
68
63
        return 0;
70
        QUEUE * create Queue (void)
71
72
           QUEUE * queue;
73
          queve = (QUEVE*) malloc (size of ( QUEVE));
74
           If (queue)
75
76
```

```
void pintavevelauEUE * queue)
112
113
           QUEUE_NODE * node = queue-> front;
114
            printf ("Front=7");
115
            while (node)
116
117
                  printf(""3d", "(int") node -> dataPtr);
118
                  node = node -> next;
119
120
             printf("<=Rear\n");
121
             return;
122
123
```