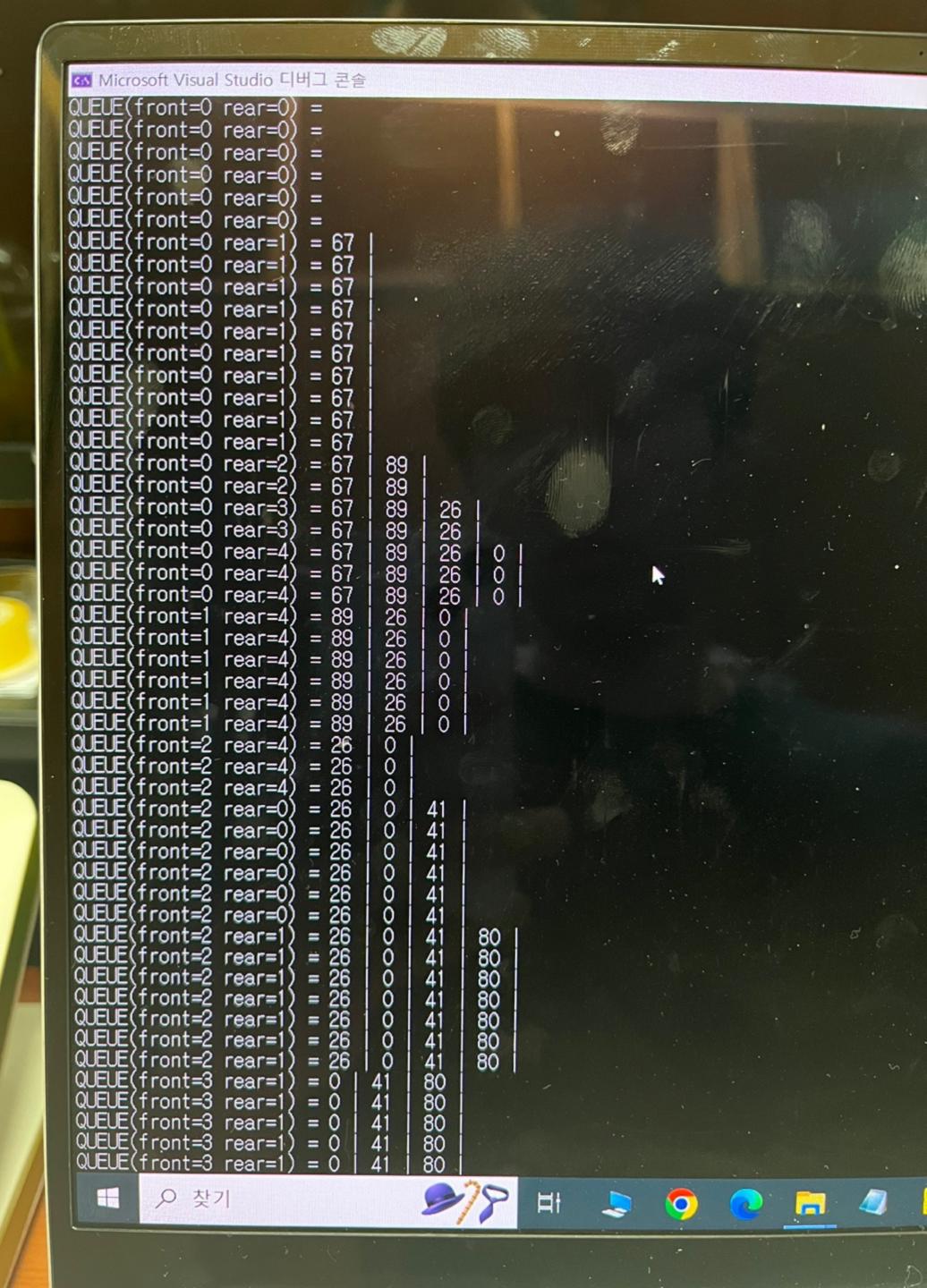
```
#define _ CRT_SECURE_ NO_WARNINGS //Scanf xt8742 33
  # include (Statio.h) // printfolk /675) 32
 # include (stallb.h) / fier of there ] Its
 #define MAX_QUEVE_SIZE 5 1/2101 7 AP 301 =5
 typlef int element; // int 对路 clanent 对地震
 typedef struct { /17221/ 50
        element data [MAX-QUEUE_SIZE]! // element x230 data 4/12 (2) (2) (2) (2)
        int front, rear; //in 213734 front, reat the to
 } QueveType; //->> (le QueveType
 Ugil error (onst char * message) //0/21 10/21 10/24
  fprintf(sterr, "%5\n", message)! //Czml/? 37
  exit(1);
                          // निर्धिति ।
Void init_queve(QueveType*q) /1月到的新
 9-> front = 9 + rear = 0;
                      1/701 And or reorg of 23 (34401)
int is_empty(Queue Type * q)
                       1/副盟华
 return (que front == q -> rear); // => frontet trotz zen out tabit (zosten)
int is_full (QueueType * G) // ZEVS1 ZEXT
  return ((g) > rear +1) % MAX_QUEUE_SIZE == g > front); //201 rear +13 20 | 2 | approx(s)
                                                  了 叶宽如同 MAN == 站lthalt
                                                  是
```

```
void queue_print (QueueType*年) /清韵讲
     printf("QUEVE (front= 1/d rear= 1/d) = ", 4 of rout, 9 > rear); /701 frontet
     if (! is_empty(q)) { // eta >> Unga | etation
         int i = 9 - front 1201 floots ion meg
         do { //do while }
              i=(i+1) / (MAX_QUEUE_SIZE): // jay(q+An+1)/, MAX_Queue_size znoj)
              Printf (" /d 1" ( + dota [i]); // 301 data = | > WIN 95 300 ( Work 94)
              if (i == 9 > rear) // whot ist exist existing (real offi)
                   brak! /1 8/2
       } while (i!=q->front); // int gofront now got poly
    Printf("\"); / My my 致
  Void enqueve (QueaeType * of element item) 17 Millet
     :f (is_full(q)) //录 按 Manzine
         enot('न्ना क्रिसिकार्थपन') /(गरामाभारा नेल ने उत्येखर
        ( + > root = ( g > root +1 ) 1/. MAX_QUEVE_SIZE; //API rear 2011 &
       Podota [q xear] = item! // dotae | rorman 9201 objects
 element dequeue (QueueType*q) 1/3 Milly
    if (is_empty(ap)) // RABUNGARDE
       etro+(">+ 3448+100/11CL")! // 1/211-1/11/ 2003 3220032
   Q->front.=(q->front+1) 1. MAX_QUEUE_SIZE; // 324 floot &Ht. &.
   return g->chta[q-> front]; //= dodael front them? I then (Azily)
element peek (QueveType * 9) { //peeking.
     If (is_empty(Q)) // elot 371 Emplerate
         error ("素)+子以外Englyct,"); 1/0岁 即以 333 7 至2岁 20
     return q > data [(q > front +1) / MAX_QUEUF_SIZE]! // datae/ front +1 vom
```

```
int moin (void) // MICHA
  Quevetype queve; // 7321 Quevetype 21 queur to
  int element! // int reas element the to
  init_queue (2queue): //= 3712+
  Srand (time (NULU))! /144/88
  for (int :=0; i(100; it) { // 100/1 that fore
       if (rond() %5 == 0) { /14/ 50/ myster
            enqueue (2queue, rand () 1/2 (00)! 1/43 7/11 /1
       queue_print (&queue); //= =====
      if (rand() 1/2 10 == 0) { //HAN /601 MAZINO
           int data = depueve ( equeve); // Form 95814 (In), data High
       queue_print (Poveue): // 3 ====
   return 0! //o that
```

3



```
🐼 Microsoft Visual Studio 디버그 콘솔
      EUE(front=1 rear=4)
                                                                          26
26
                                                       = 89
          JE(front=1
                                                        = 89
                                                                                      0
                                    rear=4
       EUE(front=1
                                                                         26
26
26
                                                        = 89
                                                                                      0
                                  rear=4)
          JE(front=1
                                  rear=4
                                                        = 89
                                                                                      0
     JEUE(front=1
                                  rear=4
                                                        = 89
 QUEUE(front=2 rear=4
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                                                                         0
QUEUE(front=2 rear=4
QUEUE(front=2 rear=4
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QUEUE(front=2 rear=0)
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= 26
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QUEUE(front=2 rear=0)
QUEUE(front=2 rear=0)
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26
                                                                         0
                                                        =
                                                                         0
                                                                                   41
                                                       =
QUEUE(front=2 rear=0)
QUEUE(front=2 rear=0)
                                                            26
                                                                         0
                                                                                   41
                                                        =
QUEUE(front=2 rear=1)
QUEUE(front=3 rear=1)
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                                                                        0
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                                                       =
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26
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80
                                                                     41
                                                      = 0
                                                                     41
                                                     = 0
QUEUE(front=3 rear=2)
QUEUE(front=3 rear=2)
QUEUE(front=3 rear=2)
QUEUE(front=3 rear=2)
QUEUE(front=3 rear=2)
큐가 포화상태입니다.
                                                      = 0
                                                                     41
                                                                                              91
91
                                                      = 0
                                                                     41
                                                                                 80
                                                                                             91
91
                                                      = 0
                                                                      41
                                                      = 0
 C:#Users#한상결#source#repos#testa#Debug#자료구조 실습.exe(프로세스 8056개)이(가)
디버킹이 중지될 때 콘솔을 자동으로 닫으려면 [도구] -> [옵션] -> [디버킹] > [디버킹
 이 창을 닫으려면 아무
```













```
do { // do while 문
                    i = (i + 1) % (MAX_QUEUE_SIZE);//iO| (i+1)%MA>
39
                                     n->data[i]): // 큐의 가장 첫버
           Microsoft Visual Studio 디버그 콘솔
          QUEUE(front=0 rear=1)
                                  = 10
13
          QUEUE(front=0 rear=1)
                                  = 10
          QUEUE(front=0
                                  = 10
                         rear=1
          QUEUE(front=0 rear=1)
                                  = 10
          QUEUE(front=0 rear=1)
                                  = 10
6
          QUEUE(front=0 rear=1)
                                  = 10
          QUEUE(front=0 rear=1)
                                  =
                                    10
     □ vo QUEUE(front=1 rear=1)
18
          QUEUE(front=1 rear=1)
19
         QUEUE(front=1 rear=1)
50
          QUEUE(front=1 rear=1)
          QUEUE(front=1 rear=1)
52
          QUEUE(front=1 rear=1)
          큐가 공백상태입니다.
53
54
          C:#Users#한상결#source#repos#testa#Debug#자료구조 실습.e
디버깅이 중지될 때 콘솔을 자동으로 닫으려면 [도구] -> [원
55
56
     Felto 도록 설정합니다.
57
          이 창을 닫으려면 아무 키나 누르세요...
58
59
60
61
62
63
64
      ⊟elε
    ❤ 문제기
보기 선택(S): 디버그
                                             ▼ | <u>*</u> | <u>*</u> | <u>*</u> | <u>*</u> | *
ic 스레느가 용료되었습니나(코드: | (Uxi)).
74 스레드가 종료되었습니다(코드: 1 (Ox1)).
388] 자료구조 실습.exe' 프로그램이 종료되었습니다(코드: 1 (0x1)).
```

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