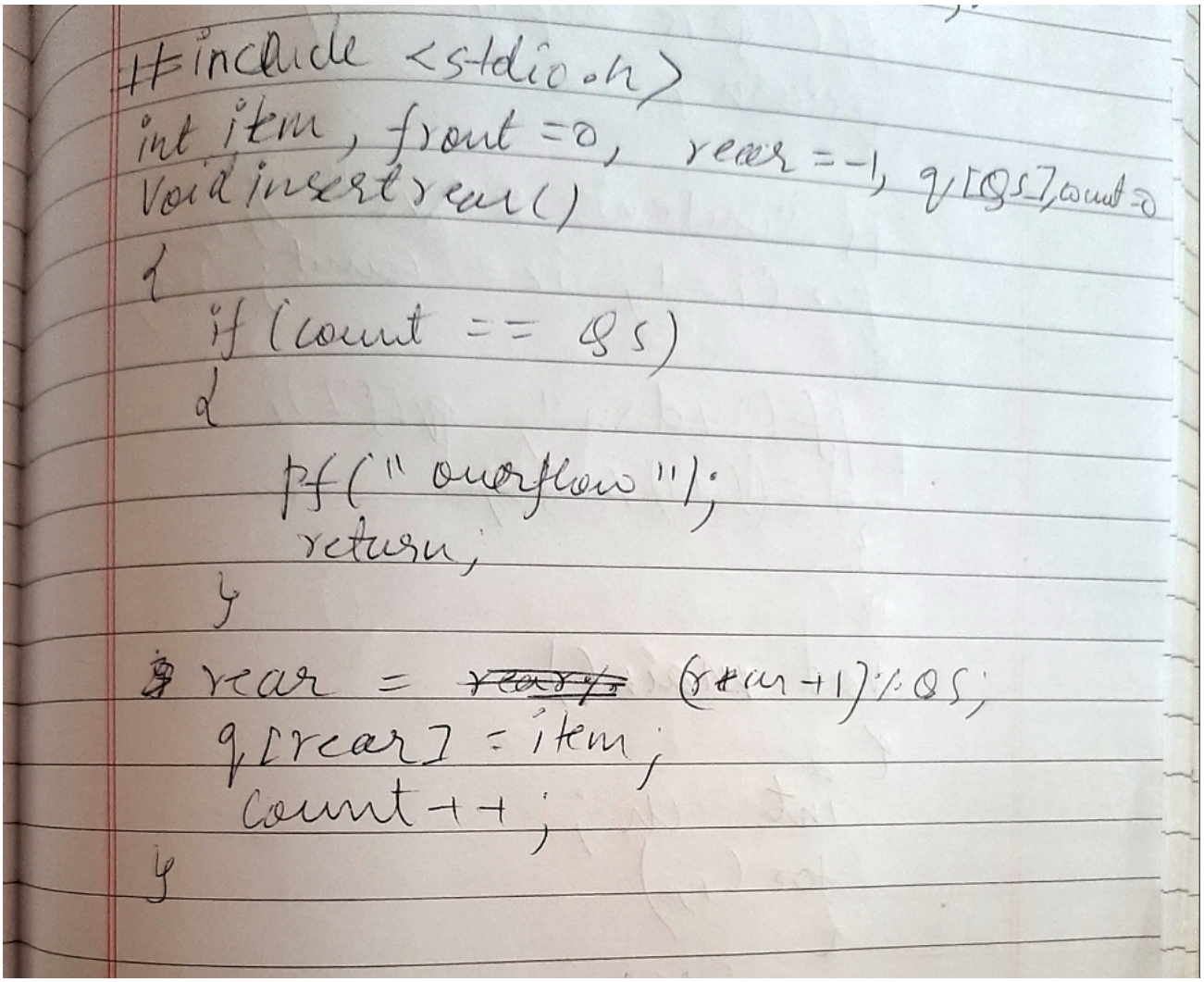

```
#include <stdio.h>
int item, front=0, rear=-1, q[QS], count=0
Void insertrear()
{
  if (count == QS)
  {
    pf("overflow");
    return;
  }
  rear = (rear+1)%QS;
  q[rear] = item;
  count++;
}
```

```
int deletefront()
{
    if (count == 0) return -1;
    item = q[front];
    front = (front + 1) % QS;
    count--;
    return item;
}
void display Q()
{
    int i, f;
    if (count == 0)
    {
        pf("Q is empty \n");
        return;
    }
    pf("contents : \n");
    for (i = 1; i <= count; i++)
    {
        pf("%d \n", q[f]);
        f = (f + 1) % QS;
    }
}
void main()
{
    int ch;
    for (;;)
    {
        printf("\n 1. insertrear \n 2. deletefront
```

```
\n 3: display \n 4: exit \n");
printf("enter choice : \n");
scanf("%d", &choice);
switch(choice)
{
  case 1: printf("Enter item\n");
  scanf("%d", &item);
  insertrear();
  break;
  case 2: item = delete front();
      if(item == -1)
      printf("queue is empty \n");
      else
      printf("item deleted = %d \n", item);
      break;
  case 3: display();
    break;
  default : return 0;
}
}
```