Parkhon (int an(), ints, inte) int pivot = arr [0] if ('s' < e) while (arr[s] <= pivot) While (arr[e] > pivot

swap (arr[s], arr[e]

swap (arr [priot - pos], arr [8]) return 8 >

Partition (arr,

quick sort (arr, s, p-1);

quick soit (are, p+1, e).

```
Countsort ( int arr[], ints, int pos
        int Count Clo) = { 03
        int. Output. (10) = .5.0.3.
        for (int 1=0; 125; 1+4)
               count [ ( arr[1]/pos) % 10]++;
        for (int i = 1; i < 10; i++.).
               count[1] = count [i] + count [i-]
        for (int i=size-1; 1>=0; 1-)
                output [ -- count [ ( arr [ i] / pos) 2, 10-]] = arr [
        for (inti=0, i < s, i++)
               are [i] = output [i];
void Radix Sort ( int arr[], int s
      int max = Find-Max (arr, size)
      for (int pos=1; max/pos >0; pos *=10
             CountSort (arr, size, poc);
    find max ( int tare, ints)
     max = arr [0];
     for. (int i= 0; i < s; )++)
            if ( air (i) > max)
                 max = arc (i).
```

```
# define N 5
# include <iostream>
```

```
enqueue (int queue[], int x, int&front, int & rear)
  4 ( real == N-1)
     ( coolec "overflow"; }
  else if ( front == -1 && (cer = - -1)
      front == -1. &C
for (in 1= front; ic rear+1:, 1++)
```

· · · S · costee apreve [i] ; }