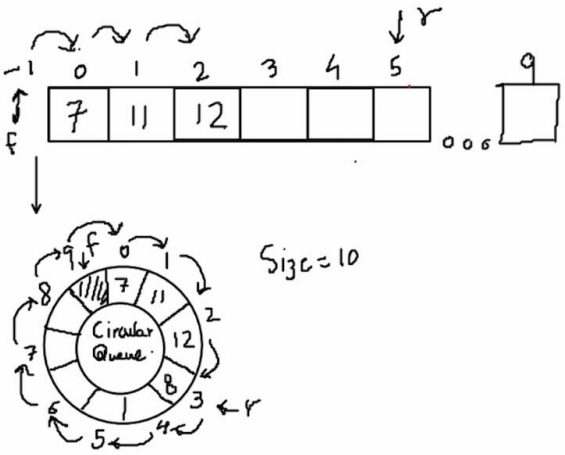
enqueue

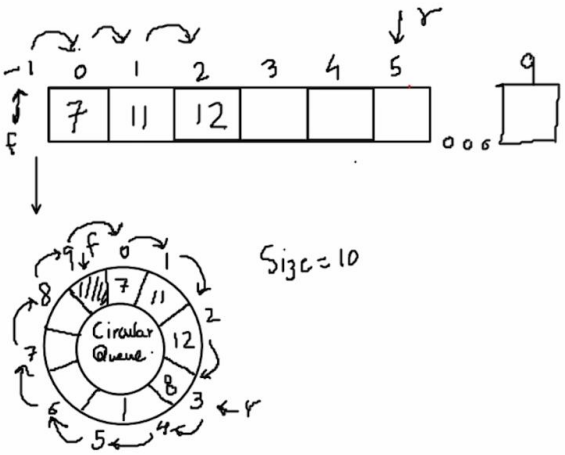
Coding Circular Queue




```
val = 8
Void enqueue ( Struct Qu * q, int val )
{ if ((q -> r + 1) % q -> size == q -> f )
    printf ("Queue overflow")
  else {
  [ q -> r = (q -> r + 1) % q -> size ;
    q -> arr [q -> r ] = val ;
    }
  }
```

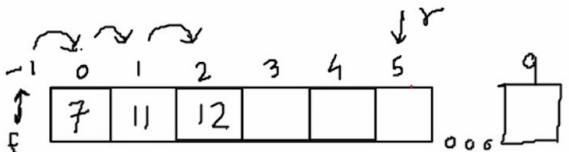
dequeue

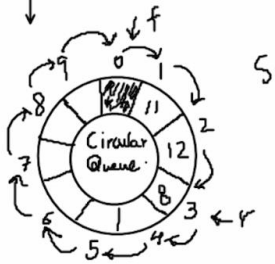
Coding Circular Queue




```
int dequeue(Struct queue *q){
  int val = -1;
  if (q -> r == q -> f){
      printf ("Empty queue")
  else{
      q -> f = (q -> f + 1) % q -> size;
      val = q -> arr[ q -> f ];
      }
  return val;
```

Coding Circular Queue





Size = 10

```
int dequeue(Struct queue *q){
  int val = -1;
  if(q->r == q->f){
    printf("Empty queue")
  }
  else{
    q->f = (q->f+1)%q->size;
    val = q->arr[q->f];
  }
  return val;
```

isEmpty