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CLASE Bicola

**public** **class** Bicola {

**private** **int** maxSize;

**private** **long**[] Bicola;

**private** **int** front;

**private** **int** rear;

**public** **int** size=0;

**public** Bicola(**int** num) {

maxSize = num;

Bicola = **new** **long**[maxSize];

front = 0;

rear = 0;

}

**public** **long** peekDer() {

**return** Bicola[front];

}

**public** **long** peekIzq() {

**return** Bicola[rear];

}

**public** **boolean** isEmpty() {

**return** rear == front;

}

**public** **boolean** isFull() {

**return** size() == maxSize - 1;

}

**public** **void** InsertDer(**long** j) {

rear = (rear + 1) % maxSize;

Bicola[rear] = j;

size++;

}

**public** **void** InsertIzq(**long** j) {

Bicola[front] = j;

**if** (front == 0)

front = maxSize - 1;

**else**

front = (front - 1) % maxSize;

size++;

}

**public** **long** removeDer() {

**long** e;

e = Bicola[rear];

**if** (rear == 0)

rear = maxSize - 1;

**else**

rear = (rear - 1) % maxSize;

size--;

**return** e;

}

**public** **long** removeIzq() {

**long** e;

**if** (rear == maxSize)

rear = (rear + 1) % maxSize;

e = Bicola[front];

size--;

**return** e;

}

**public** **int** size() {

**return** (size);

}

**public** **void** Mostrar() {

**long** e;

**for** (**int** i = 1; i <= size(); i++) {

e = removeIzq();

System.*out*.println(e);

InsertDer(e);

} } }