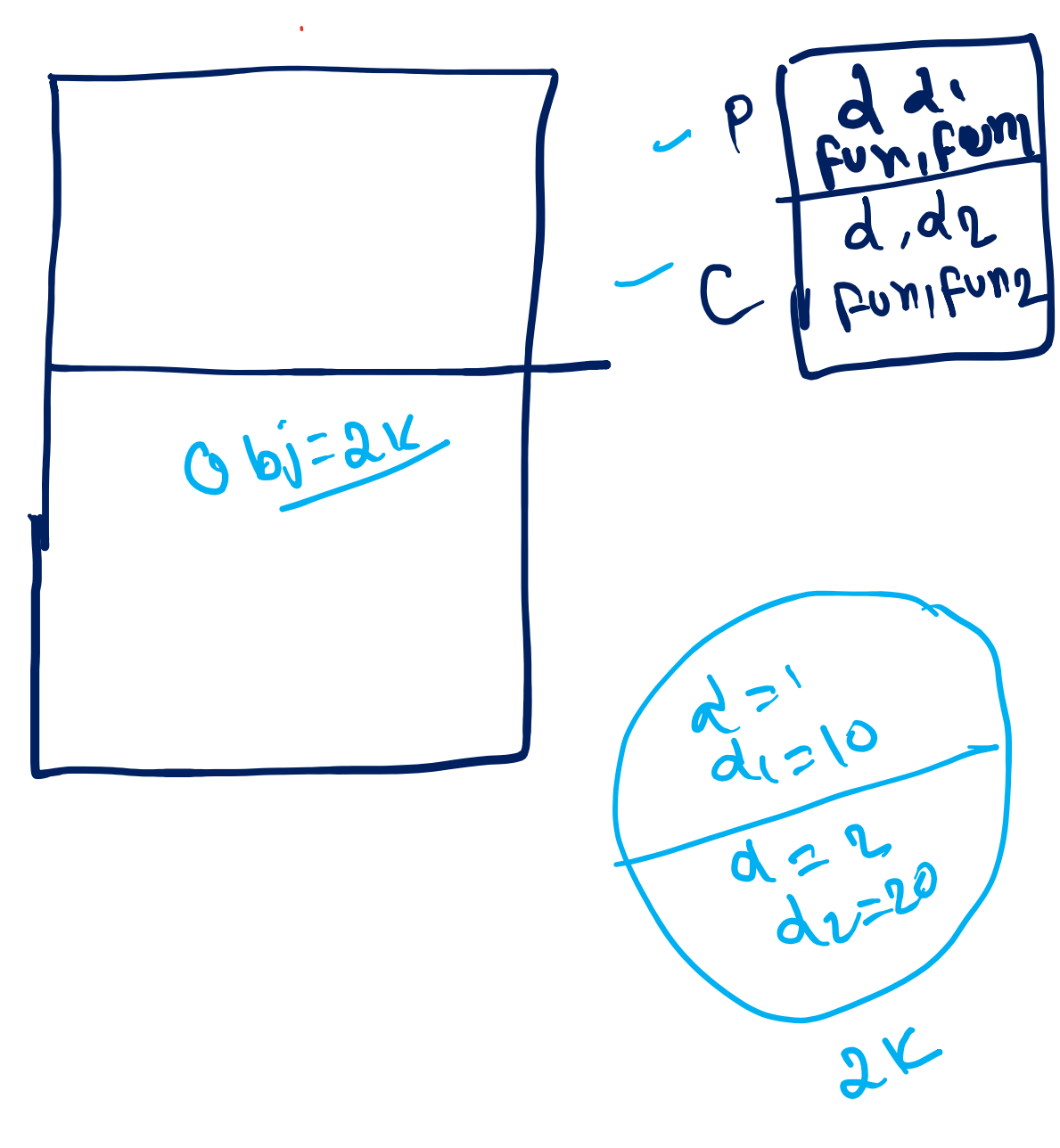
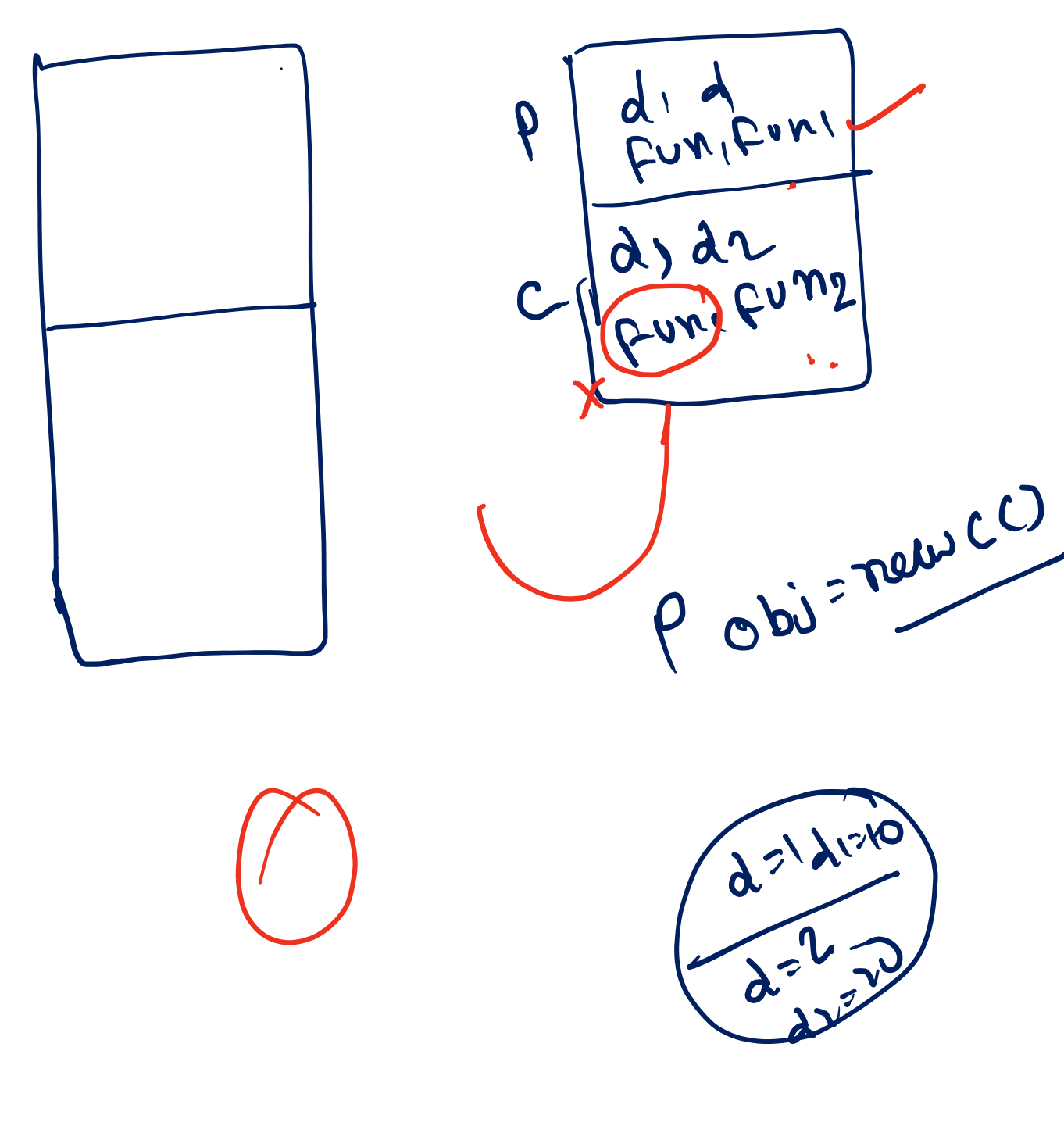


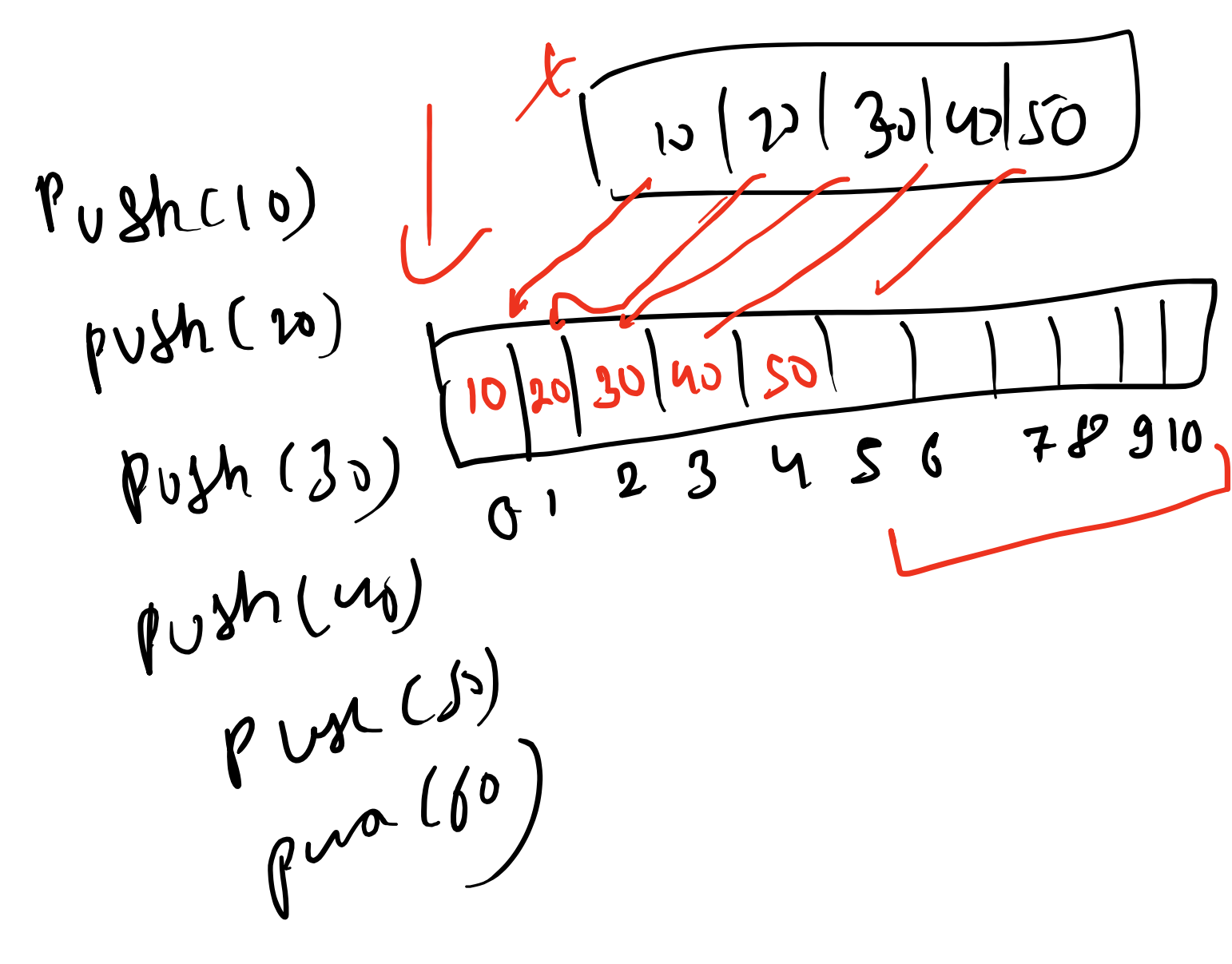
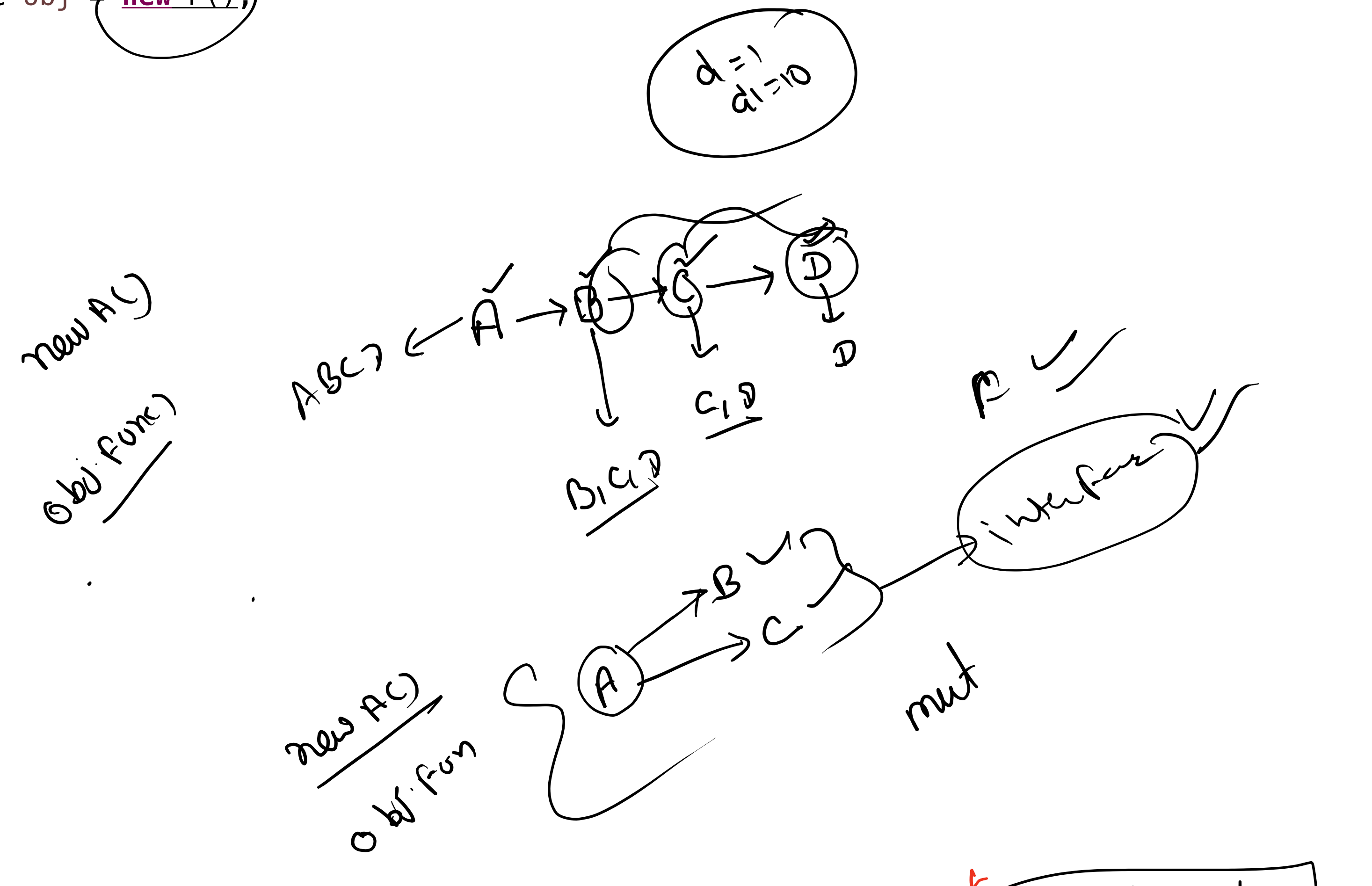
```
public static void main(String[] args) {
    // TODO Auto-generated method stub
    // case-1;
    P obj = new P();
    System.out.println(obj.d);
    System.out.println(obj.d1);
    obj.fun();
    obj.fun1();
    // case-2;
    P obj = new C();
    System.out.println(obj.d);
    System.out.println(obj.d1);
    obj.fun();
    obj.fun1();
}
```



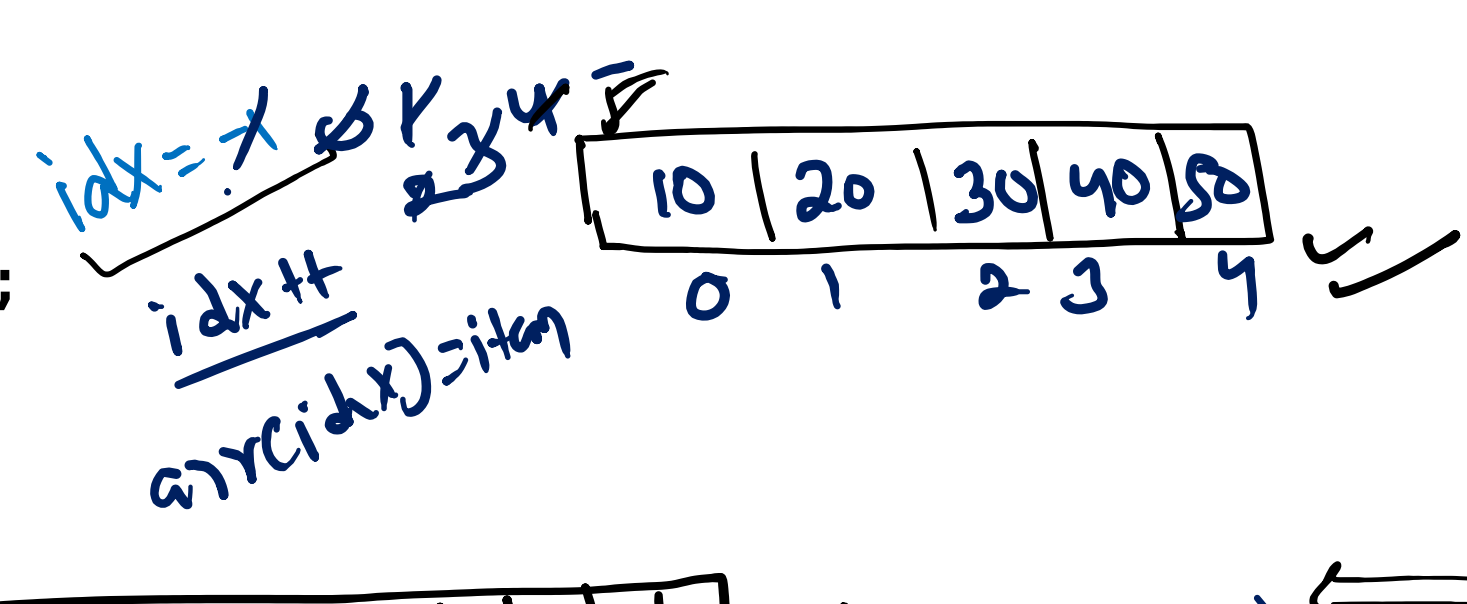
```
public static void main(String[] args) {
    // TODO Auto-generated method stub
    // case-1;
    P obj = new P();
    System.out.println(obj.d);
    System.out.println(obj.d1);
    obj.fun();
    obj.fun1();
    // case-2;
    P obj = new C();
    System.out.println(obj.d);
    System.out.println(obj.d1); //10
    System.out.println(((C)obj).d2);
    System.out.println(((C)obj).d);
    obj.fun();
    obj.fun1();
    ((C)obj).fun2();
}
```



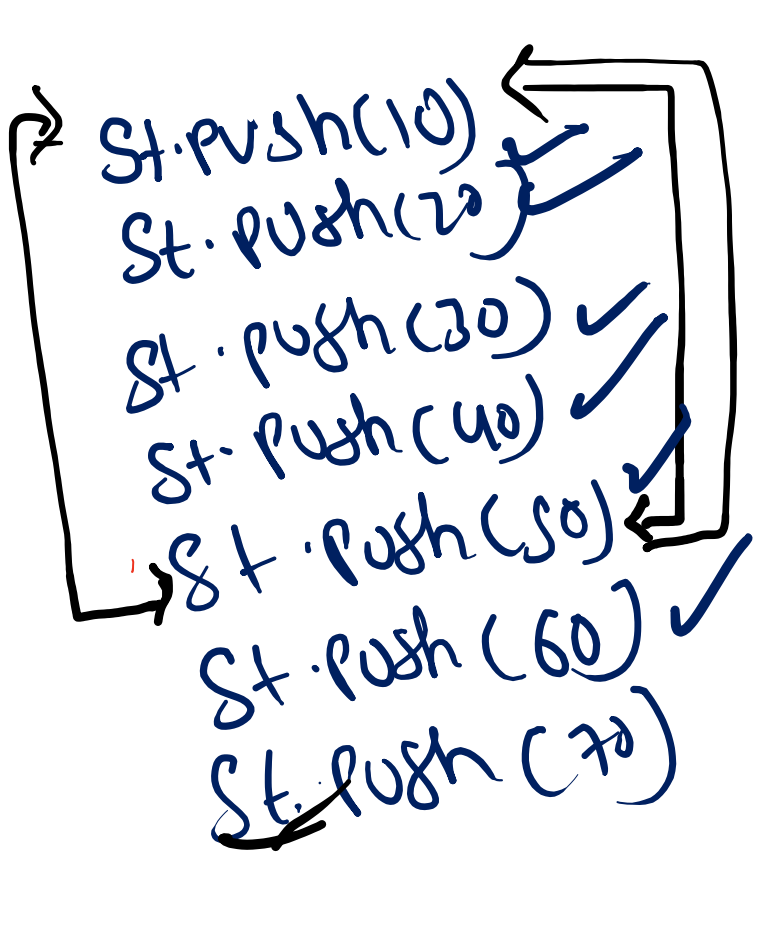
C obj = new P();



```
public void push(int item) throws Exception {
    if (isFull()) {
        int[] new_Array = new int[2 * arr.length];
        for (int i = 0; i < arr.length; i++) {
            new_Array[i] = arr[i];
        }
        arr = new_Array;
    }
    super.push(item);
}
```

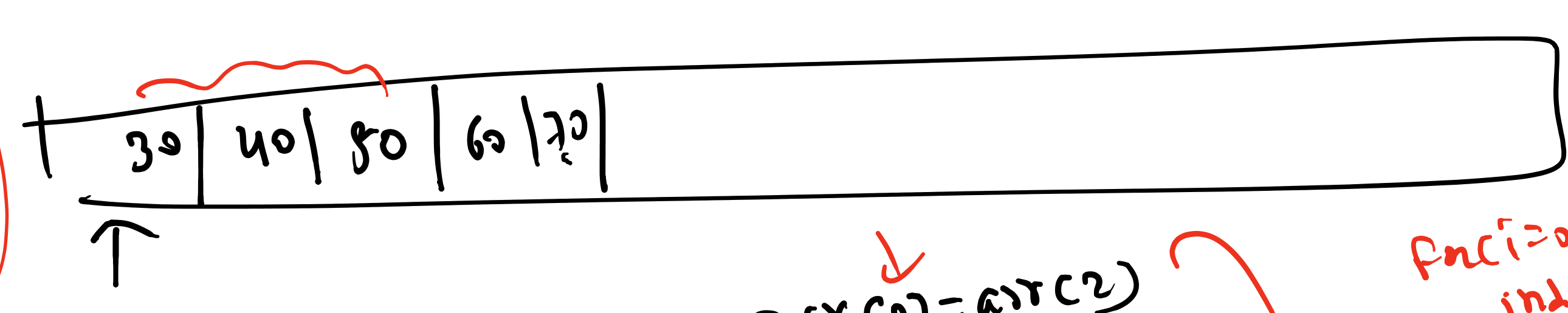
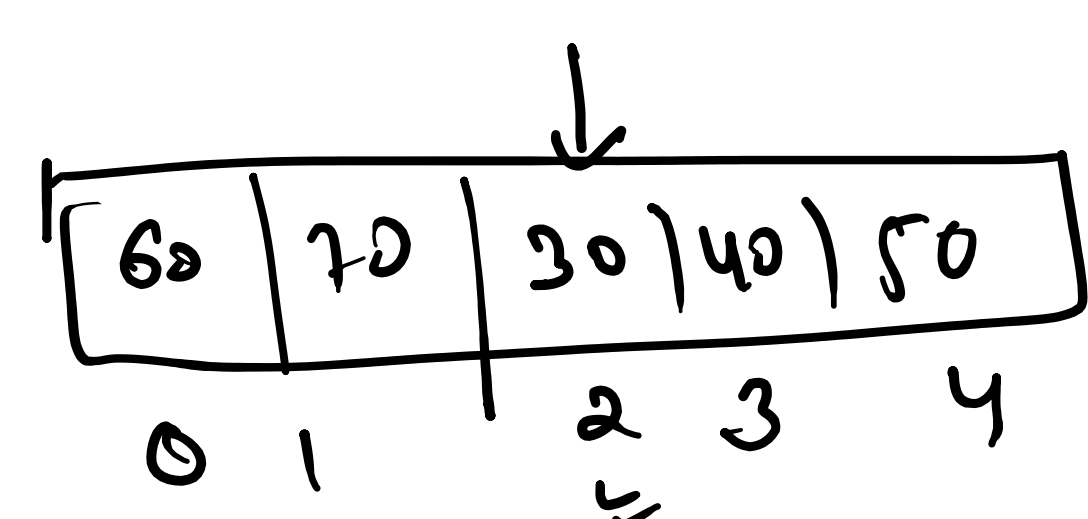


```
public static void main(String[] args) throws Exception {
    Dynamic_Stack st = new Dynamic_Stack();
    st.push(10);
    st.push(20);
    st.push(30);
    st.push(40);
    st.push(50);
    st.push(60);
    st.push(70);
    st.Display();
}
```



30 40 50 60 70

i=0 2+0=2  
i=1 2+1=3  
i=2 2+2=4  
i=3 2+3=5  
i=4 2+4=6



new arr(0) = arr(2)  
new arr(1) = arr(3)  
new arr(2) = arr(4)  
new arr(3) = arr(0)  
new arr(4) = arr(1)

func() = karr(lem) +  
ind idx = (k+1) / m  
new ci = arrcidx

```
@Override
public void Enqueue(int item) throws Exception {
    if (isFull()) {
        int[] new_Array = new int[2 * arr.length];
        for (int i = 0; i < arr.length; i++) {
            new_Array[i] = arr[i];
        }
        arr = new_Array;
    }
    super.Enqueue(item);
}

public static void main(String[] args) throws Exception {
    Dynamic_Queue dq = new Dynamic_Queue();
    dq.Enqueue(10);
    dq.Enqueue(20);
    dq.Enqueue(30);
    dq.Enqueue(40);
    dq.Enqueue(50);
    System.out.println(dq.Dequeue());
    System.out.println(dq.Dequeue());
    dq.Enqueue(60);
    dq.Enqueue(70);
    dq.Enqueue(80);
    dq.Display();
}
```

