

10

listIndex = new ArrayList()

Routine
Jump

✓✓

```
P obj = new C();
```

class name var

x P obj

P obj

↖

C obj

C obj

R.H.S

new classname

new p();

new c();

new p();

new c();

no c()

$d = 2 \quad d_2 = 20$
 $d = 1 \quad d_1 = 10$
 2k

new Acti

multiple.

2WA ()

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

```
public static void main(String[] args) {
    DynmaicStack st= new DynmaicStack();
    st.push(10); ✓
    ✓ st.push(20);
    ✓ st.push(30);
    ✓ st.push(40); ✓
    ✓ st.push(50); ✓
    st.push(60);
}
```

$i \Delta x = 0 \ 2 \ 2 \ 2 \ 4 \ 5 \ 6$

X


X

10	20	30	40	50
----	----	----	----	----

$0 \ 1 \ 2 \ 3 \ 4$

```
public void push(int item) throws Exception {
    if (isFull()) {
        throw new Exception("sun bhai Stack full hai ");
    }
    this.arr[this.idx] = item;
    this.idx++;
}
```

idx = (2+1) % 5 = 2
(2+1) % 5 = 3



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

```
for(int i= 0; i< arr.length; i++) {
    int idx= (front+ i) % arr.length;
    newarr[i] = arr[idx];
}
```

$\begin{matrix} 10 \\ 9 \\ 8 \\ 7 \\ 6 \\ 5 \\ 4 \\ 3 \\ 2 \\ 1 \end{matrix}$