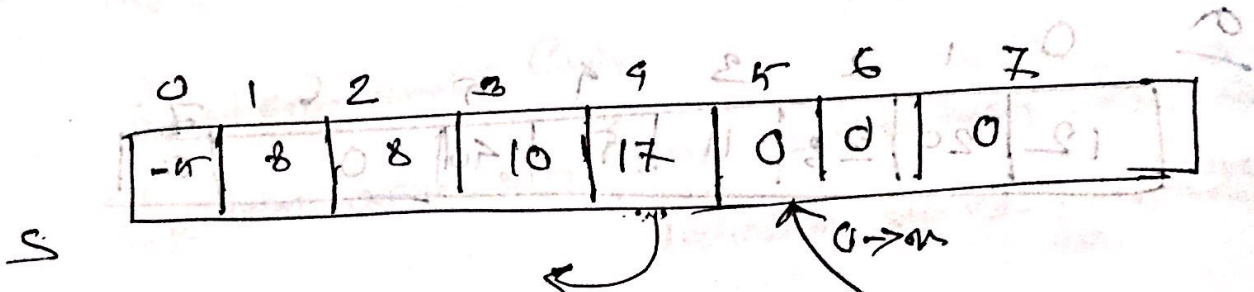


Stack

Stack implementation by Array:



currently: $top = 4$

Pop()
→ $top--$

push(n)
→ $top++$
 $S[top] = n$

is Empty()

{ if ($top = -1$)
returns true;

returns false

}

Top()

{

return $S[top]$

}

if (top == -1) else if (top > 8)
 → underflow → overflow

Basic implementation by Array

```

int a = new int [15];
int top = -1;
  
```

```

push(int x)
{
  ++top;
  if (top <= a.length - 1)
  {
    a[top] = x;
  }
}
  
```

```

pop()
{
  if (top >= -1)
  {
    --top;
  }
}
  
```

(2 < 90) to 500
int Top()

if (top > 0 || top <= a.length - 1)

return a[top];

else

return -1;

S.O.P in (in Stack it out of boundary)

return -1;

if (top < 0 || top >= a.length)

else

return isEmptly()

if (top >= 0)

return true;