Stacks

Balanced Bracket

Next Greater Element

lifo:

last in first Out:

data structure


```
   c    ← top
   b
   a
```

1) push

Size Element

Types of ~Operation Performed on Stacks:

1) push   2) Pop → Only top element

3) Top
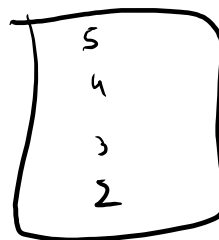
```
int main () {         string
    stack <int> S;
    S.push (2);
    S.push (3);
    S.push (4);            boolean
    S.push (5);              true
    while ( !S.empty ()) {
        cout << S.top () << end l;
        S.pop ();
    }
}
```
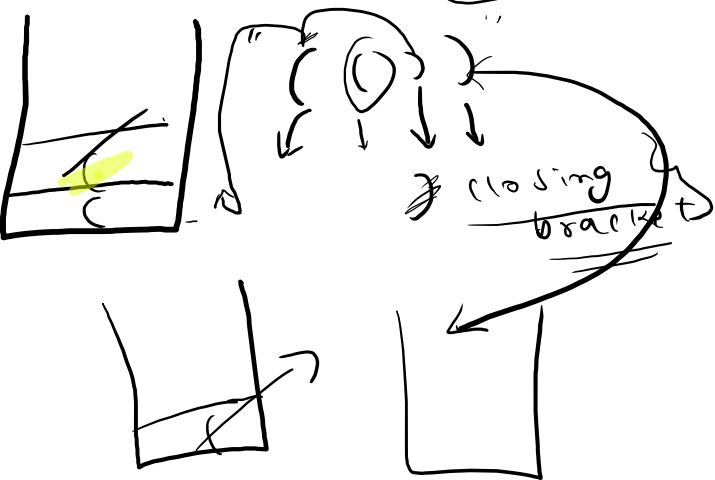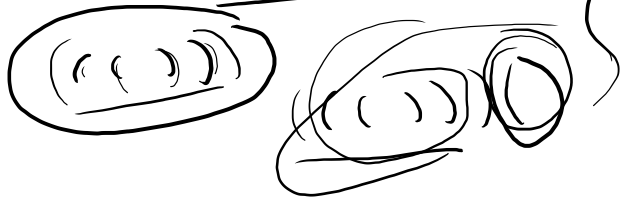
```
5
4
3
2
```

```
5
4
3
2
```

Balanced Bracket

valid Parenthesis

Stl containers

unordered - map

syntax:
```
int main ()
    unordered - map < String, int > umap;

    umap [ "Jwala" ] = 10;

    umap [ "Ronit" ] = 20;

    // Traversing an unordered map
    for ( auto x : umap )
        cout << x. first << " " << x. second << endl;
    }
```

keyword:
auto