Stack of Pair in C++ STL

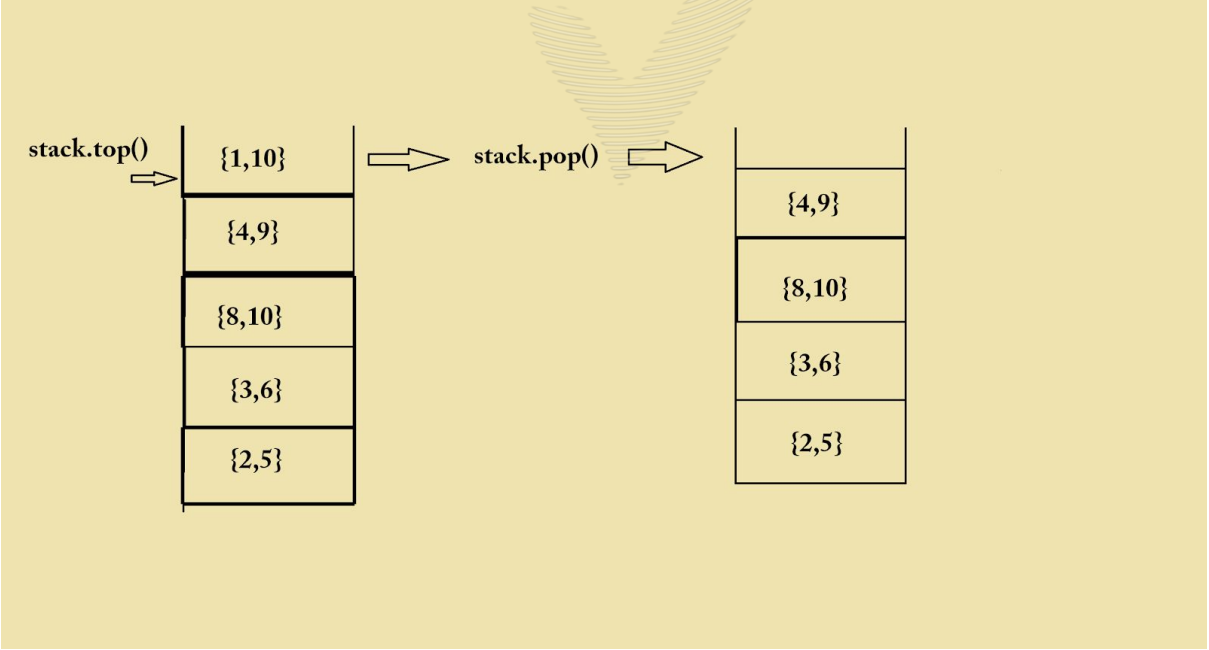
Stack in STL : Stacks are a type of *container adaptors* with LIFO(Last In First Out) type of working, where a new element is added at one end and (top) an element is removed from that end only.

Pair In STL : The pair container is a simple container , consisting of two data elements or objects. The first element is referenced as 'first' and the second element as 'second' and the order is fixed (first, second).

Syntax :

```
stack < pair < datatype , datatype > > stack_of_pair;
```

Example :



EXAMPLE :

```cpp
#include <bits/stdc++.h>
#include <iostream>
using namespace std;

int main()
{
    stack<pair<char , int >>st;
    // pushing pair of elements in the stack
       st.push({'a',1});
      st.push({'b',2});
      st.push({'c',3});
      st.push({'d',4});
      st.push({'e',5});

   //print all the pairs of the stack
      for(int i = 0 ;i < 5;i++)
      {
          cout << i+1 << "th pair = (" << st.top().first
  << " , " << st.top().second << ")"  <<endl;
          st.pop();
      }
     return 0;
  }
```

OUTPUT :

stdout

```
1th pair = (e , 5)
2th pair = (d , 4)
3th pair = (c , 3)
4th pair = (b , 2)
5th pair = (a , 1)
```