```
#pragma once
#include <iostream>
#define CAPACITY 10
class STACK FULL :std::exception
};
class STACK EMPTY : std::exception
};
template <typename T>
class FixSizeStack
        T arr[CAPACITY];
        int top;
public:
        FixSizeStack()
                this->top = -1;
        }
        bool isFull()
                return top == (CAPACITY-1);
        }
        bool isEmpty()
                return top == -1;
        }
        void push(T data)
                 if (isFull())
                         throw new STACK FULL;
                 }
                else
                         this->arr[++top] = data;
                 }
        }
        T pop()
                 if (isEmpty())
                 {
                         throw new STACK_EMPTY;
                 }
```