

# Exception Handling

25 February 2023 09:22

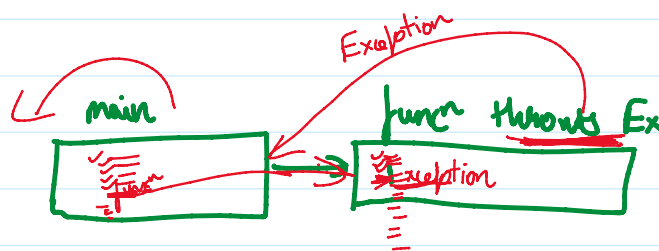
- AIOB / SIOB
- Null Pointer
- Stack Overflow / Heap Overflow
- % by 0
- TLE

Error **X**

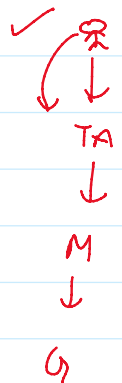
Exception **Handled**

↳ Goodbad Codeflow stops

2  
↳ Handled



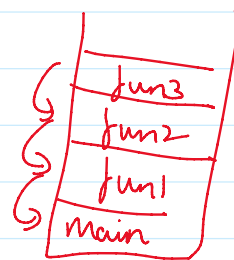
Unhandled  
→ Automatically



1) Pass it to the parent

2) try / catch blocks

try {  
    ...  
} } this code can throw Exceptions



try {  
    ...  
}

Exception  
Runtime Exception

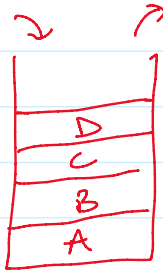
Arrays

A.L

String (character Array)

S.B

Stack  
one end  
you  
insertion  
deletion

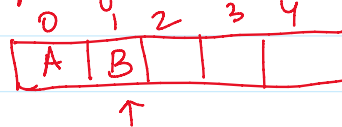


Insertion: A B C D

Deletion: D C B A

Last In First Out (LIFO)

5 capacity ki stack using Arrays



0 → Stack class  
D.M { int top  
int[] arr

D.F

int size() → returns size

boolean isEmpty()

boolean isFull()

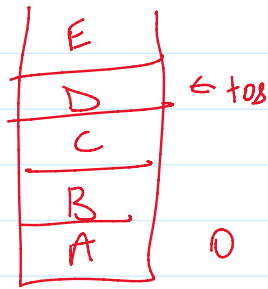
void push(int ele) → adds element

int peek() → returns top element

int pop() → return top element  
& deletes it

void display() → print the stack

de

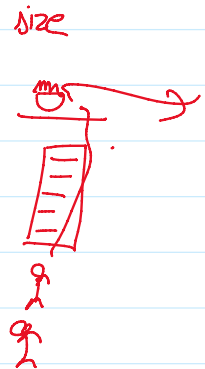
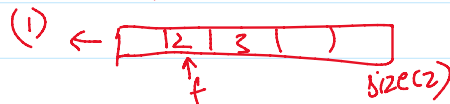
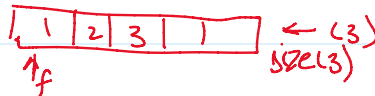


D C B A

Queue using arrays



1 end for insertion  
1 end for deletion



First In First Out

D.M

- int[] arr
- int front
- int size

D.fun

int size() → returns size

boolean isEmpty()

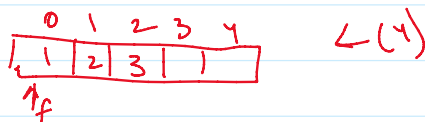
boolean isFull

void enqueue(int ele) → insert element

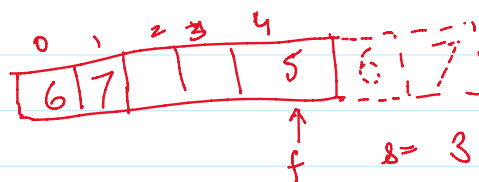
int dequeue → remove element

int peek() → displays front

void display() →



size = 3  
front = 0



$f + s = 5$   
 ~~$f + s$~~  use % cap

cap = 5

