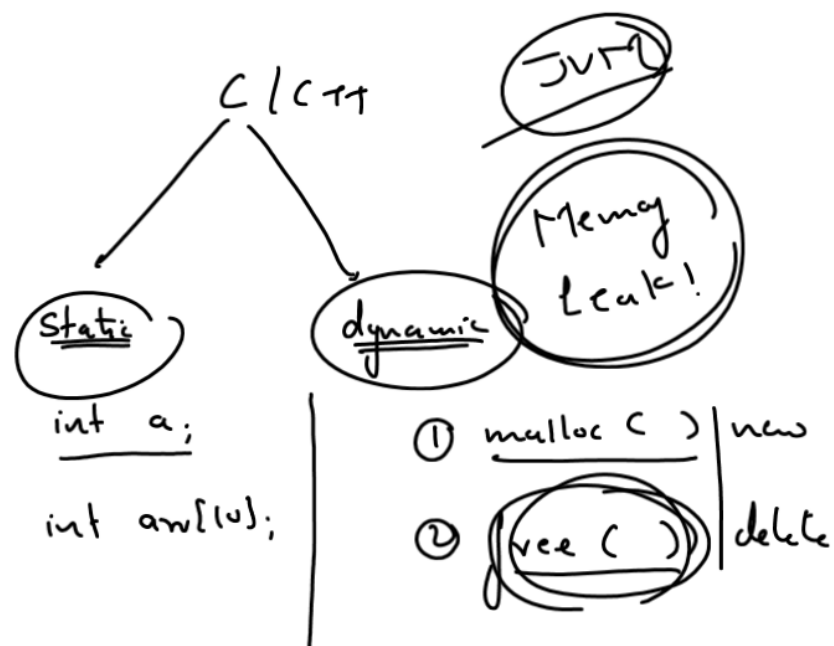


Important properties Of Java =====

① Platform Independent

② Automatic Memory Mgmt



=====

=====

Exception

Exception

Unpredictable

3. Robust (Fault tolerant)

=====

Java has some very strict rule which every programmer must follow and if these rules are broken then JVM kills the program by generating **EXCEPTION**

For example: In Java we are not allowed to cross boundaries of an Array and if by mistake will do so then Java will kill our code by generating Exception

Benefits

=====

The benefit of this behavior is that other running program and the OS itself remain safe and secure

④ Secure

⑧ No Pointer

int a; X

4. Sucure

=====

Java has been designed mainly for Internet and Internet is a open network and we know that due to this sucurity is a big issue for programs running on internet

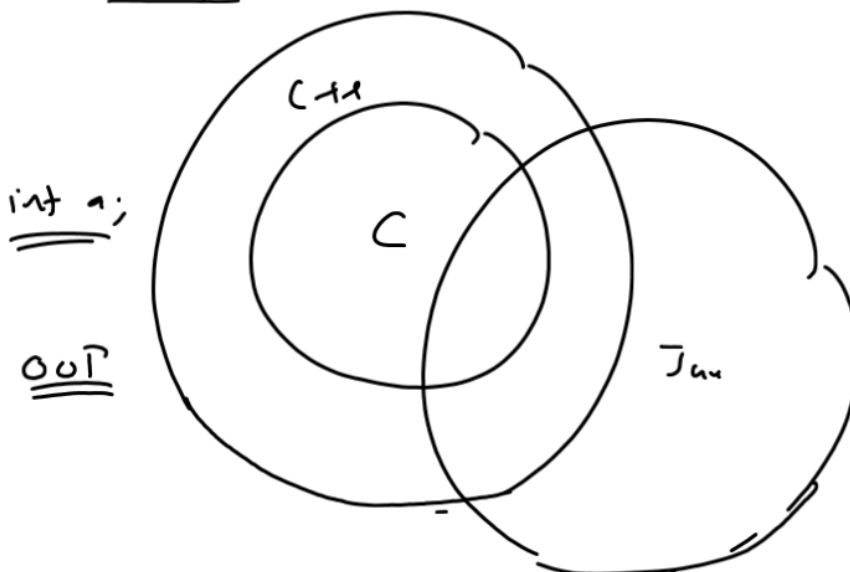
Java has beatifully tackaled by

1. by restrciting the programmer from directly accessing any address.

For example: **POINTERS ARE NOT PRESENT IN JAVA**

2. By not allowing the program to directly interact with the OS

⑤ Simple



5. Simple

=====

Java has borrowed its maximum syntax (around 80%) from languages like C and C++. For example topics like data types, Operators, Control Statements, Loops, Functions, Arrays etc. are also present in Java with almost same syntax as C and C++. So if a programmer has basic understanding of these languages he can easily learn Java and so we can say Java is a Simple language.

⑥ Object Oriented class

6. OOP

=====

Java strictly follows rules of OOP. For example it is compulsory for us to use **class** in every program we write in Java . So OOPs topic like Encapsulation, Inheritance, Polymorphism, Abstraction etc are strictly followed by Java

⑥

⑦ Multi Threaded

Parallel | Time
Exe

⊆
int main()
{
✓ factorial (5);
✓ checker (7);
✓ prime (9);
}

7. Multithreading

=====

Multithreading means parallel execution that is a multithreading program executes several tasks together.

For example in a browser we can parallelly open multiple tabs and each tab we can open a website

In a music player there are many activities done together like

- a. Playing the song
- b. Running of a timer to show how much song has been played
- c. Running of a slider showing song progress
- d. Allowing the user to control volume level while song is played
- e. Allowing the user to add or remove songs in the play list while a song is played

All the above activities are executing together in one single program and this is called multithreading.

Since Java has built-in support for multithreading so program like games, chat application, music players etc can be easily developed in Java

Telegram link: t.me/scajb8

or search on Telegram @scajb8

Your next class will be on Saturday at 7:45 pm