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Java Day-1 (JA111 batch)
java introduction
Lanching Year: 1995
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Company: SUN Microsystem (Stanford university network), since 2010 it is part of Oracle corporation
Designed for: Consumer goods
What it achieves for you?
- Potability
- Security
A.cpp ----> compiler -----> .exe (windows)
A.cpp ----> compiler -----> .out (linux)
output of compilation is a native instruction format i.e. it is sth specific to a operating system.
implementation of data type was also machine dependant
compiler-1 (TC++): int 2 bytes.... -32768 to 32767
compiler-2 (VC++): int 4 bytes.... -2147483648 to 2147483647
int a = 40000;
A.java ----> compile -----> .class file (bytecode) -----> JVM ---> output
bytecode is a highly optimized set of instructions that is designed to be executed on JVM.
Security
- Security manager that enforces strict security policy for java program
- Strict compile time and run time checking is also in java
```