

# stderr: OutputWriter

+ \_\_construct(settings)

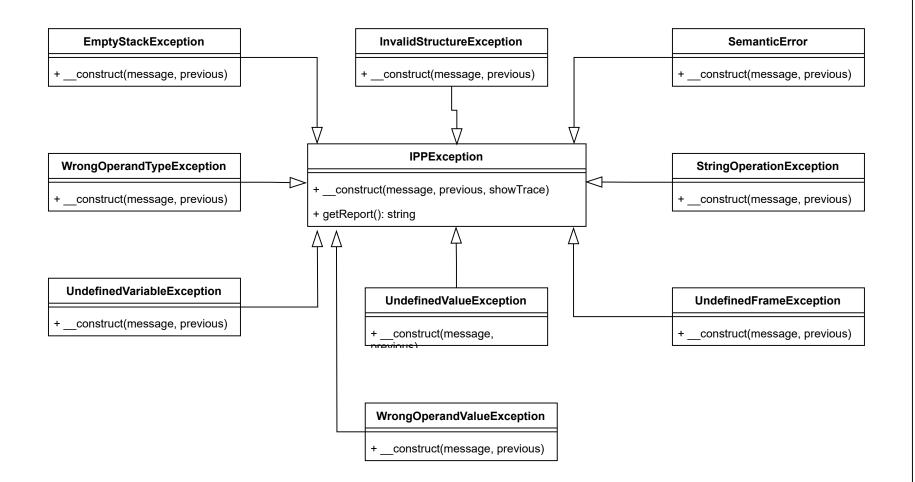
# init(): void

+ execute(): int

load(): void

resolve\_labels(): void

interpret(): void



## VirtualMachine instructions: array<Instruction> labels: array<string, int> - input: InputReader stdout: OutputWriter - stderr: OutputWriter - ip: int - callStack: Stack<int> - frameStack: FrameStack - dataStack: Stack<array<string, string>> - globalFrame: array<string, array<string, string>> - temporaryFrame: array<string, array<string, string>>|null \_construct(instructions, labels, input, stdout, stderr) - executeInstruction(instruction): void getVariable(name, canBeUndefined): array<string, string> - setVariable(name, type, value): void symb(arg): array<string, string> var(arg): array<string, string> convertToInt(arg): int - convertToBool(arg): bool - checkArgCount(args, count): void - checkComparability(arg1, arg2): void - areEqual(arg1, arg2): bool - MOVE(args): void - CREATEFRAME(args): void - PUSHFRAME(args): void - POPFRAME(args): void - DEFVAR(args): void - CALL(args): void - RETURN(args): void - PUSHS(args): void - POPS(args): void - ADD(args): void - SUB(args): void - MUL(args): void - IDIV(args): void - LT(args): void - GT(args): void - EQ(args): void - AND(args): void - OR(args): void - NOT(args): void - INT2CHAR(args): void - STRI2INT(args): void - READ(args): void - WRITE(args): void - CONCAT(args): void - STRLEN(args): void - GETCHAR(args): void - SETCHAR(args): void - TYPE(args): void - LABEL(args): void - JUMP(args): void - JUMPIFEQ(args): void - JUMPIFNEQ(args): void - EXIT(args): void - DPRINT(args): void - BREAK(args): void