sd Execute Circuit Program : UserInterface : InterpreterFacade : CiphertextSerializer : ProgramLoader 1: executeProgram(prog, args, key) 1.2: unserialize(arg) [for each arg in args] 1.2.1: <<create>> c[i] : Ciphertext 1.2.2: return c[i] 1.3: loadProgram(prog) 1.3.1: <<create>> program : CircuitProgram program will throw an exception if the arguments are not correct 1.4: execute(Pk, c) 1.5: return result 1.6: serialize(result) 1.7 return serializedResult

2: return serializedResult