

Parsing Class Members:

```
public class ClassMember
{
    SyntaxType type;
    String name;
    public static ClassMember parse(Scanner212 s)
    {
        if(!keyword("public")) return null;
        SyntaxType type;
        if((type = SyntaxType.parse(s)) == null) throwSyntax("Expected Type");
        String name;
        if((name = Word()) == null) throwSyntax("Expected Name");

        if(Operator("("))
        {
            ClassMethod cm = ClassMethod.parse(s);
            cm.type = type;
            cm.name = name;
            return cm;
        }
    }
}

public class ClassMethod extends ClassMember
{
}

public class ClassField extends ClassMember
{
}
```

New calling convention for methods

Push “this”

Push method address

Push arguments

(A parameter offset is: -(AllParametersCount+1)+index) – this is so because types only have a size of 1, if you consider variables (of types) that have sizes larger than one that this is not necessarily so.

“this” parameter is at offset -(AllParametersCount+2)

An expression with a “function” (or delegate or method) type has size of two, therefore, in expression statement, when clearing an expression from the stack you have to ADDSP -2.

The return variable should be stored to overwrite the “this” parameter offset.
When you return from a function, since types only have a size of 1, you need to ADDSP - 1 (from the caller, after unlink) to remove the method-address from the stack.