

```

class Xref
{
    /* STORES AND MANAGES IDENTIFIER DATA */

    final int MAX_IDENTIFIERS = 1000;

    String[] identifierInformation = new String[MAX_IDENTIFIERS];

    int numberOfStoredWords;

    void add(String word, int lineNumber)
    {
        /* IF NOT A JAVA RESERVED WORD, INSERT word INTO THE DATABASE, INDICATING THAT IT IS
        REFERENCED ON LINE lineNumber */

        String[] javaReservedWord = {"abstract", "assert", "boolean", "break", "byte", "case", "catch", "char", "class", "const",
        "continue", "default", "do", "double", "else", "enum", "extends", "false", "final", "finally",
        "float", "for", "goto", "if", "implements", "import", "instanceof", "int", "interface", "long",
        "native", "new", "null", "package", "private", "protected", "public", "return", "short",
        "static", "strictfp", "super", "switch", "synchronized", "this", "throw", "throws", "transient",
        "true", "try", "void", "volatile", "while", word}; // all Java reserved words; word at end guarantees
        // termination of for loop

        int i;

        for (i = 0; !word.equals(javaReservedWord[i]); i++) ; // traverse javaReservedWord and see if any entry matches word

        if (i < javaReservedWord.length - 1) return; // matches a reserved word, so don't add to database

        /* doesn't match a reserved word, so proceed by searching to see if word is already in database */
        :
        :
        :

```