```java
import java.util.HashMap;
import java.util.Map;

public class SymbolTable
{
  private Map<String, Integer> symbols;

  /** Creates and initializes a SymbolTable */
  public SymbolTable()
  {
    symbols = new HashMap<>();
  }

  /** Adds <symbol, address> to the table (void) */
  public void addEntry(String symbol, int address)
  {
    if (!RESERVED_SYM.containsKey(symbol))
      symbols.put(symbol, address);
  }

  /** Checks if symbol exists in the table (boolean) */
  public Boolean contains(String symbol)
  {
    return RESERVED_SYM.containsKey(symbol) || symbols.containsKey(symbol);
  }

  /** Returns the address (int) associated with symbol */
  public int getAddress(String symbol)
  {
    if (RESERVED_SYM.containsKey(symbol))
      return RESERVED_SYM.get(symbol);

    return symbols.get(symbol);
  }

  private static final Map<String, Integer> RESERVED_SYM = new HashMap<>()
  {
    {
      put("SP", 0);
      put("LCL", 1);
      put("ARG", 2);
      put("THIS", 3);
      put("THAT", 4);
      put("R0", 0);
      put("R1", 1);
      put("R2", 2);
      put("R3", 3);
      put("R4", 4);
      put("R5", 5);
      put("R6", 6);
      put("R7", 7);
      put("R8", 8);
      put("R9", 9);
      put("R10", 10);
      put("R11", 11);
      put("R12", 12);
      put("R13", 13);
      put("R14", 14);
      put("R15", 15);
```

```
60        put("SCREEN", 16384);
61        put("KBD", 24576);
62      }
63    };
64
65 }
66
```