

Princeton University  
COS 217: Introduction to Programming Systems  
Typical SymTable Client Code

```
int i;
int iLength;
void *pvOldValue;
SymTable_T oSymTable;

oSymTable = SymTable_new();

i = SymTable_put(oSymTable, "Ruth", "RF");
i = SymTable_put(oSymTable, "Gehrig", "1B");
i = SymTable_put(oSymTable, "Mantle", "CF");
i = SymTable_put(oSymTable, "Jeter", "SS");

pvOldValue = SymTable_replace(oSymTable, "Mantle", "1B");

iLength = SymTable_getLength(oSymTable);

i = SymTable_contains(oSymTable, "Ruth");

pvOldValue = SymTable_get(oSymTable, "Ruth");

pvOldValue = SymTable_remove(oSymTable, "Ruth");

SymTable_map(oSymTable, somefunction, someextravalue);

SymTable_free(oSymTable);
```