

Princeton University
COS 217: Introduction to Programming Systems
The Assembler Assignment:
Example Code for Pass 1 Directive Handling

To handle the .asciz directive:

```
static void Pass1_processAscizDir(Instr_T oInstr)
{
    char *pcString;
    Operand_T oOperand;
    int i;
    int iOperandCount;

    assert(oInstr != NULL);
    assert(Instr_getType(oInstr) == INSTR_DIRECTIVE);
    assert(strcmp(Instr_getName(oInstr), ".asciz") == 0);

    iOperandCount = Instr_getOperandCount(oInstr);
    for (i = 0; i < iOperandCount; i++)
    {
        oOperand = Instr_getOperand(oInstr, i);
        pcString = Operand_getString(oOperand);
        Section_addBytes(oCurSection, strlen(pcString) + 1, pcString);
    }
}
```