Princeton University
COS 217: Introduction to Programming Systems
Assembler Assignment
Suggestions for Creating the Data Section

For the .ascii directive:

```
psDir = psInstr->u.dir;
psArg = psDir->arg_list;
pcString = psArg->u.string;
pucDest = (psCurrentSection->obj_code) + *puiCurrentLc;
memcpy(pucDest, pcString, strlen(pcString));
*puiCurrentLc += strlen(pcString);
```

For the .half directive:

```
psDir = psInstr->u.dir;
psArg = psDir->arg_list;
psExp = psArg->u.exp;
iValue = evalExp(psExp);
pucDest = (psCurrentSection->obj_code) + *puiCurrentLc;
pshDest = (short*)pucDest;
*pshDest = (short)iValue;
*puiCurrentLc += 2;
```