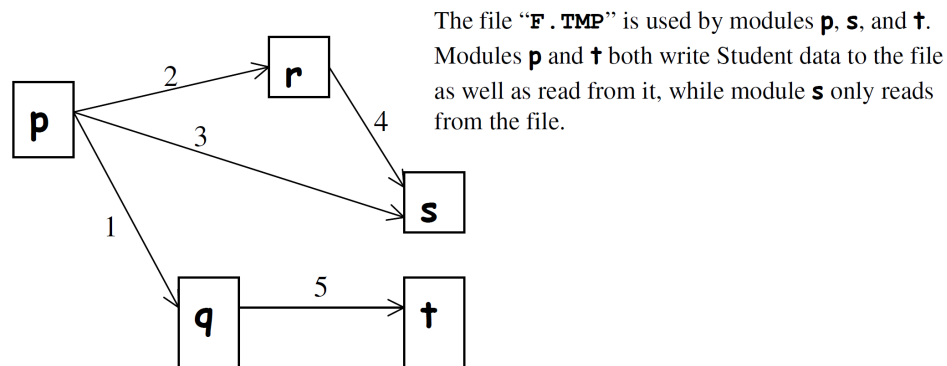Name: _____   ID: _____

Time: 15 minutes

Problem 1

Given a set of functions that print or store student status reports, with data-flow connections as shown in the diagram and table below (arrow direction is In flow, and Out flow is counter-arrow), determine the coupling type(s) between the functions.

Table 1: Function call and return data

Call #	In	Out
1	Student Object	StudentValid Flag
2	Switch Flag	-
3	Student ID	-
4	-	StudentReport Object
5	Student ID	Student Credit

The file "**F.TMP**" is used by modules **p**, **s**, and **t**. Modules **p** and **t** both write Student data to the file as well as read from it, while module **s** only reads from the file.

Determine the coupling types in the table ($CP1 \rightarrow CP10$):

Table 2: Coupling Types

	p	q	r	s	t
p		CP1	CP2	CP3	CP4
q			CP5	CP6	CP7
r				CP8	CP9
s					CP10
t					