Write a Prolog Program for STUDENT-TEACHER-SUB-CODE.

Program:

```
studies(charlie, csc135).
studies(olivia, csc135).
studies(jack, csc131).
studies(arthur, csc134).
teaches(kirke, csc135).
teaches(collins, csc131).
teaches(collins, csc171).
teaches(juniper, csc134).
Rules
professor(X, Y) :- teaches(X, C),
studies(Y, C).
// X is a professor of Y if X teaches C and Y studies
C.
(here X is a professor, Y is a student and C is a
course and X, Y, C are variables)
```

OUTPUT:

```
[trace]  ?- teaches(juniper, csc134).
   Call: (10) teaches(juniper, csc134) ? creep
   Exit: (10) teaches(juniper, csc134) ? creep
true.

[trace]  ?- studies(Y, C).
   Call: (10) studies(_8172, _8174) ? creep
   Exit: (10) studies(charlie, csc135) ? creep
Y = charlie,
C = csc135 .
```