EX 6.2 FOL students courses

Represent the following sentences in first-order logic, using a consistent vocabulary (which you must define):  
a. Some students took French in spring 2001.   
b. Every student who takes French passes it.  
c. Only one student took Greek in spring 2001.  
d. The best score in Greek is always higher than the best score in French.

a/ ∃*s*(Student(*s*)∧Took(*s*,French,Spring2001))

b/ ∀*s*∀*t*((Student(*s*)∧Took(*s*,French,*t*))→Passed(*s*,French,*t*))

c/ ∃*s*(Student(*s*)∧Took(*s*,Greek,Spring2001)∧∀*s*2​((Student(*s*2​)∧Took(*s*2​,Greek,Spring2001))→*s*2​=*s*))

d/ ∀*t*∀*s*1​∀*s*2​((Took(*s*1​,Greek,*t*)∧∀*s*(Took(*s*,Greek,*t*)→Score(*s*,Greek,*t*)≤Score(*s*1​,Greek,*t*))∧Took(*s*2​,French,*t*)∧∀*s*(Took(*s*,French,*t*)→Score(*s*,French,*t*)≤Score(*s*2​,French,*t*)))→Score(*s*1​,Greek,*t*)>Score(*s*2​,French,*t*))