Object-Oriented Design and Programming Tutorial

University Challenge is a TV quiz competition featuring teams of students from universities around the UK. You may recall that in 2009 a team from Oxford University apparently won the competition but were then stripped of their title because their team did not meet competition rules regarding team composition.

Suppose the rules regarding the composition of a valid University Challenge team are as follows:

- The team must represent a single UK university and must consist of exactly four students.
- Each team member must be registered as a student at the same university that the team represents.
- Each team member must not be younger than 18 or older than 40.
- The average age of team members must be less than 25.
- The team must contain exactly one student who has been nominated as captain. Assignment Project Exam Help Note these rales must hold throughout the competition and may be checked at any time during the competition.
- Draw a UNIT transgrant to teoribe the about
- Write C++ class declarations (i.e. no function bodies) to support the above. b
- Write a test week Control Cont

 - Ivor Bigbrain (aged 20), a registered student at Imperial, joins the team.
 - Prezza Buzza (aged 18), a registered student at Imperial, joins the team.
 - Ivonna Singh (aged 25), a registered student at Imperial and nominated captain, joins the team.
 - Yuman Google (aged 32), a registered student at Imperial, joins the team.
 - Prezza Buzza graduates, thereby ceasing to be a registered student at Imperial.
 - A check is carried out to determine whether or not the team meets the competition rules regarding team composition.
- Write the bodies of the functions from part (b) that relate to your classes for contestants and teams.