Problem 1 (100pt): Download the files main.cpp, Student.h, Student.cpp on CCLE and write classes StudentClub and a non-member function find_youngest to make main.cpp compile. Put the declaration and definition of find_youngest in StudentClub.h and StudentClub.cpp separately. You may not modify provided files and only submit StudentClub.h and StudentClub.cpp on CCLE.

Non-member function find_youngest is declared as follows. It returns the names of students who have the youngest age. Note there may exist more than one students who are youngest.

```
std::vector<std::string> find_youngest(const std::vector<Student*> member);
```

StudentClub should have the following private data members.

- name: a string that stores the name of student club.
- president: treasurer: pointers to Student objects.
- member: a vector of pointers to Student objects. Hint: std::vector<Student*> member;

StudentClub should also have at least the following methods.

- StudentClub(std::string n): initializes name with n, pointers as null pointers and member as a vector of size 0.
- StudentClub(std::string n, Student* p, Student* t, std::vector<Student*> m): initializes private members with provided arguments.
- get_president(), get_treasurer(), get_member(): return private members accordingly. Hint: don't forget they are const methods (or so-called accessors).
- void set_president(Student* p) and void set_treasurer(Student* t).
- void add_member(Student* s): appends the student pointer object to member.
- print: prints the information of the StudentClub class object. Change the following /* *** */ part with correct syntax to print according information on the console.

With the provided int main file, the output should look exactly like:

Club Name: MATHBRUINS

President Name: John Treasurer Name: John Current members: 4

Youngest members: Kate Jess

Instructions:

- (5pt) You may not modify provided files. Submit the header file StudentClub.h and implementation file StudentClub.cpp on CCLE only.
- (10pt) Write your code with good coding practice. Comment on your code to make it readable and add description of this file in the beginning to show your ownership.
- (85pt) main.cpp compiles with your code and has correct results. Your code should work with other int main function as well. You may lose the majority of points if it doesn't compile with VS 2019. Only use virtual machines to check your homework after it compiles well and has correct results on your local computer. Manually log out your account after using the machine.

You are not allowed to use global variables.