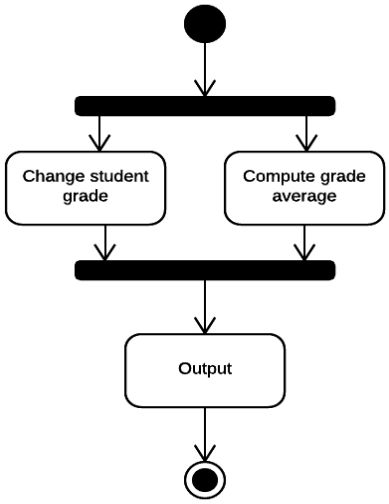
Programming Exercise UML:

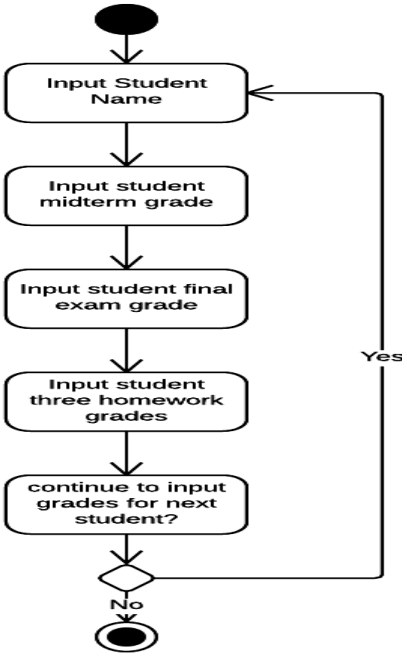
Software Engineering Exercise 3.10: Write a class that supports course grading; it contains an array where each student is identified by an integer and has a course grade. There is also a method that can change the student grade and a method that computes the grade point average for the class.

Activity Diagram:

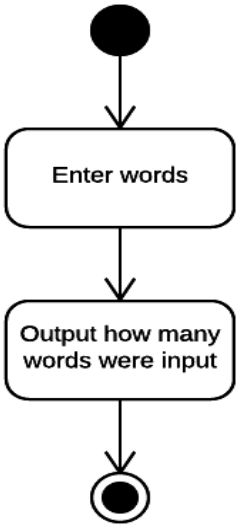


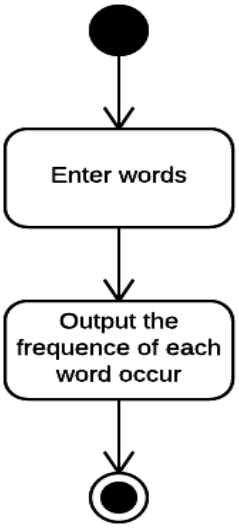
Accelerated C++ Exercise 3-5: Write a program that will keep track of grades for several students at once. The program could keep two vectors in sync: The first should hold the student's names. And the second the final grades that can be computed as input is read. For now, you should assume a fixed number of homework grades.

Activity Diagram:

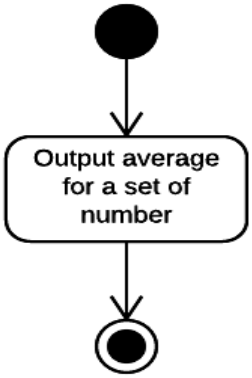


Exercise 4-5: Write a function that reads words from an input stream and stores them in a vector. Use that function both to write programs that count the number of words in the input, and to count how many times each word occurred.





Exercise 4-7: Write a program to calculate the average of the numbers stored in a vector<double>



Exercise 6-9: Use a library algorithm to concatenate all the elements of a vector<string>