CSE 202 LAB 4

In this laboratory we are going to do part of the Homework 2 assignment. We will be creating the program which takes a file containing the message in morse code and converts it to the alphabetic message.

Your program should include the following functions:

```
class Code
{
public:
    Code(); // Default constructor - loads and uses morse code
    string decode(vector< string> message); // decodes a message

private:
    vector<string> codewords; // this is a codeword vector parallel to A-Z
    vector<char> alpha; // this is the vector for A-Z

    vector<char> alphacode(); // function builds the vector alpha - A B C etc.

    vector<string> morsecode(); // function builds the vector codewords containing morse code
    char decode(string c); //returns the character for the codeword c.
};
```

Your main program will use the above class to input a morse code message from a file. Since every codeword is separated by a space, you can input the message using cin, and store each codeword as a separate string in a vector. Then submit the vector to the class function decode, and it will return the decoded message. When finished, output the string. You can download the functions morsecode and alphacode. Use your program to decode the messages message 1 and message 1.