C program to count number of vowels and consonants in a string.

Algorithm:

1. Start

2. Input string, vowels = 0; consonants = 0; s[1000]

3. for (i=0; s[i]; i++)

   if (((s[i]>=65 && s[i]<=90) || (s[i]>=97 && s[i]<=122))

   if (s[i] == 'a' || s[i] == 'e' || s[i] == 'i' || s[i] == 'o' || s[i] == 'u' ||

      s[i] == 'A' || s[i] == 'E' || s[i] == 'I' || s[i] == 'O' || s[i] == 'U'.

      vowel++;
      else
      consonants++;

4. output vowels, consonants

5. Stop.

Flowchart:

```
                        ( Start )
                            |
                            v
                  [ Input string ]
                            |
                            v
                  [ Vowels = 0
                    Consonants = 0 ]
                            |
                            v
              < for (i=0; S[i]; i++) >
                            |
                            v
                           if
                          /  \
                        /      \
                      <  (S[i]>=65 &&  >
                        S[i]<=90 ||
                        S[i]>=97 &&
                        S[i]<=122
                          \      /
                            |
                            v
                           if
                        /        \
          <  (S[i]=='a' || S[i]=='e' ||          >
             S[i]=='i' || S[i]=='o' || S[i]=='u'
             ||S[i]=='A' || S[i]=='E' || S[i]=='I'
             || S[i]=='O' || S[i]=='U'
         /                                \
        v                                  v
[ Consonants++ ]                      [ Vowels++ ]
        |                                  |
        +-----------------+----------------+
                          |
                          v
          [ Output vowels consonants ]
```