

```
1 #include <stack>
2 #include <queue>
3 #include <iostream>
4
5 using namespace std;
6
7 int getNumVocales(string a){
8     int contador=0;
9     for(int i=0;i<a.size();i++)
10    {
11        char aux=toupper(a[i]);
12        if(aux == 'A' || aux=='E' || aux=='I' || aux=='O' || aux=='U'){
13            contador++;
14        }
15    }
16    return contador;
17 }
18
19 class comp{
20     public:
21
22     bool operator() (string a, string b)
23     {
24         if(getNumVocales(a) == getNumVocales(b)){
25             return a>b;
26         }
27         else
28         {
29             return getNumVocales(a) < getNumVocales(b);
30         }
31     }
32 }
33 };
34
35 int main(){
36     priority_queue<string, vector<string>, comp> pq;
37     string A="Hola mundo.";
38     string B="Hello world";
39     string C="Adios pedro";
40     string D="Salut monde.";
41     string E="AaEeIiOoUu";
42
43     pq.push(A);
44     pq.push(B);
45     pq.push(C);
46     pq.push(D);
47     pq.push(E);
48
49     while(!pq.empty()){
50         cout << pq.top()<< " con " << getNumVocales(pq.top()) << " vocales" << endl;
51         pq.pop();
52     }
53 }
```