Silencios

silencios

```
 1  vector<intervalo > silencios(senial s, int prof, int freq, int umbral) {
 2      vector<pair<int,int> > intervalos;
 3      int i=0;
 4      while(i < (s.size() - 1)){
 5          if(abs(s[i]) < umbral ){
 6              int j = i + 1;
 7              while(j < s.size() && (abs(s[j]) < umbral)){
 8                  j++;
 9              }
10              if(j > (i + 1)){
11                  intervalos.push_back(make_pair(i,(j - 1)));
12              }
13              i = j + 1;
14          }
15          else{
16              i++;
17          }
18      }
19      return intervalos;
20  }
```

c_1	1
c_2	1
c_3	$1 + n - 1$
c_4	$n - 1$
c_5	$n - 1$
c_6	$1 + n - 1$
c_7	$n - 1$
c_8	$n - 1$
c_9	$n - 1$
c_{10}	$n - 1$

- $n = |s|$

- $T_{silencios}(n) = c_1 + c_2 + c_3 \cdot n + c_4 \cdot (n-1) + c_5 \cdot (n-1) + c_6 \cdot n + c_7 \cdot (n-1) + c_8 \cdot (n-1) + c_9 \cdot (n-1)$

- $T_{silencios}(n) \in O(n)$