

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	$(n-1)$

- $n = |s|$
- $T_{\text{silencios}}(n) = c_1 + c_2 + c_3 * n + c_4 * (n - 1) + c_5 * (n - 1) + c_6 * n + c_7 * (n - 1) + c_8 * (n - 1) + c_9 * (n - 1)$
- $T_{\text{silencios}}(n) \in O(n)$