Teste de Mesa – Aula06 - BubbleSort

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Entrada v[n] | | | n | i | i < n-1  ? | j | j < n-1  ? | v[j] > v[j+1]  ? | aux | v[j] | v[j+1] |
| 0 | 1 | 2 |
| 4 | 5 | 1 | 3 | 0 | v | 0 | v | 4>5 = F | - | - | - |
| 4 | 1 | 5 |  |  |  | 1 | v | 5 > 1 = V | 5 | 1 | 5 |
|  |  |  |  |  |  | 2 | f | - | - | - | - |
| 1 | 4 | 5 |  | 1 | v | 0 | v | 4 > 1 = V | 4 | 1 | 4 |
|  |  |  |  | 2 | f | 1 | f |  |  |  |  |
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| 1 | 4 | 5 |  |  |  |  |  |  |  |  |  |

void bubble\_sort (int v[], int n) {

int i, j, aux;

for (i = 0; i < n - 1; i++) {

for (j = 0; j < n-1; j++) {

if (v[j] > v[j + 1]) {

aux = v[j];

v[j] = v[j + 1];

v[j + 1] = aux;

}

}

}

}

R: Foram realizadas 3 comparações e 2 trocas