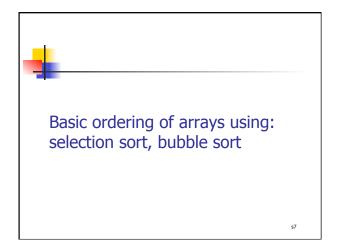


Activity:

 Make a program that populates two vectors with the values 1 – 5 by using the "for" loop, multiplies them and the result is put in a third vector. Print out the result.

s6

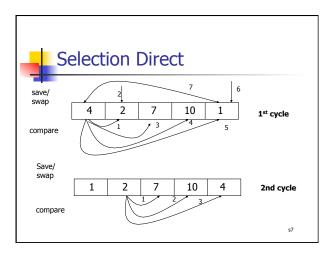




Selection Direct

- A node is compared with all the nodes ahead him, and swapped if lesser
- The same operation is done with the next node

s7



```
Selection Direct

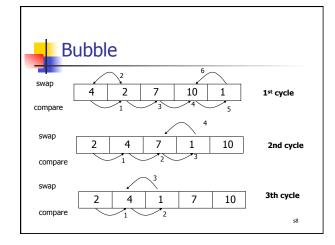
int a[] = {4, 2, 7, 10, 1};
int k; // tiene el indice de la localidad con el menor num
int menor; // tiene el menor num
int !; // recorre el arreglo
int j; // recorre el arreglo a partir de i+1
int n = a.length; // size of the array
for(i=0; i < n-1; i++) { // menor: a[i]
k = i;
menor= a[i];
for(j=i+1; j<n; j++) //comparamos menor con a[j]
if(a[j] < menor){
k = j;
menor= a[k];
menor= a[k];
}
a[k] = a[i]; // donde esta el menor ponemos a[i]
a[i] = menor; // ponemos en a[i] el menor
```



Bubble

- Every node is compared with its neighbour and swapped if lesser
- The number of pairs compared are reduced in 1
 - Reduction from the right to left

s8





Activity:

 Make a program shows a menu with the following options: sort (ascending), sort (descending), and exit. The user introduce the option and the values of the array.
 Each sort operation is implemented by a different sort algorithm. The program only exits when the user selects the exit option. 4

Activity:

• Make a program which takes an array of 10 integers as input (the user introduces the values of the array) and prints out 2 arrays. Odd numbers are placed in a second array and even numbers are placed in a third array. Both arrays are sorted in descendent order. Use the selection direct algorithm.

s8