


Algorithmics	Student information	Date	Number of session
	UO: 297383	24/02	2
	Surname: Herrero Sánchez	 Escuela de Ingeniería Informática Universidad de Oviedo	
	Name: Iván		



Activity 1. [Bubble Algorithm]

n	T ordered	T reverse	T random
10000	292	1432	962
2*10000	1137	5635	3957
2**2*10000	4653	22709	15406
2**3*10000	18501	89097	61545
2**4*10000	74007	OoT	OoT

Activity 2. [Selection Algorithm]

n	T ordered	T reverse	T random
10000	299	268	290
2*10000	1201	1078	1138
2**2*10000	4793	4330	4671
2**3*10000	18704	17138	18604
2**4*10000	73677	68651	74102

Activity 3. [Insertion Algorithm]

n	T ordered	T reverse	T random
10000	LoR	274	151
2*10000	LoR	1110	594
2**2*10000	LoR	4346	2221
2**3*10000	LoR	17498	8702
2**4*10000	LoR	69877	54898

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$2^{**5} \cdot 10000$	LoR	OoT	OoT
$2^{**6} \cdot 10000$	LoR	OoT	OoT
$2^{**7} \cdot 10000$	LoR	OoT	OoT
$2^{**8} \cdot 10000$	LoR	OoT	OoT
$2^{**9} \cdot 10000$	LoR	OoT	OoT
$2^{**10} \cdot 10000$	54	OoT	OoT
$2^{**11} \cdot 10000$	107	OoT	OoT
$2^{**12} \cdot 10000$	195	OoT	OoT
$2^{**13} \cdot 10000$	403	OoT	OoT

Activity 4. [Quicksort Algorithm]

n	T ordered	T reverse	T random
10000	LoR	LoR	LoR
$2 \cdot 10000$	LoR	LoR	LoR
$2^{**2} \cdot 10000$	LoR	LoR	LoR
$2^{**3} \cdot 10000$	LoR	LoR	LoR
$2^{**4} \cdot 10000$	LoR	LoR	55
$2^{**5} \cdot 10000$	LoR	LoR	113
$2^{**6} \cdot 10000$	94	96	243