Julio Regueira Gonzalez UO309022

Ejercicio 1:

n	TBucle1(ms)	TBucle2(ms)	TBucle3(ms)	TBucle4(ms)
100	0	0	1	0
200	0	0	3	5
400	0	3	16	42
800	0	14	70	324
1600	0	53	266	2587
3200	1	254	1145	21023
6400	1	943	4755	167364
12800	1	4224	20214	FDT
25600	3	19301	83737	FDT
51200	8	78386	343223	FDT

```
51200   78588   1               13107712000
PS C:\Users\UO309022\Desktop\alg_JulioRegueiraGonzalezUO309022\p12> java -Xint p12.Bucle3 1
n       tiempo  repeticiones    contador
100     1       1               71400
200     3       1               323200
400     16      1               1447200
800     70      1               6416000
1600    266     1               28195200
3200    1145    1               122956800
6400    4755    1               532646400
12800   20214   1               2294118400
25600   83737   1               9831168000
51200   343223  1               41944678400
PS C:\Users\UO309022\Desktop\alg_JulioRegueiraGonzalezUO309022\p12>
```

```
51200   343223  1               41944678400
PS C:\Users\UO309022\Desktop\alg_JulioRegueiraGonzalezUO309022\p12> java -Xint p12.Bucle4 1
n       tiempo  repeticiones    contador
100     0       1               171700
200     5       1               1353400
400     42      1               10746800
800     324     1               85653600
1600    2587    1               683947200
3200    21023   1               5466454400
6400    167364  1               43711148800
PS C:\Users\UO309022\Desktop\alg_JulioRegueiraGonzalezUO309022\p12>
```

n	TBucle5(ms)	TBucle6(ms)	TBucle7(ms)
100	4	61	480
200	24	527	7188
400	114	4529	114076
800	534	39203	FDT
1600	2486	337773	FDT
3200	11485	FDT	FDT
6400	53390	FDT	FDT

```
PS C:\Users\UO309022\Desktop\alg_JulioRegueiraGonzalezUO309022\p12> javac -d . *.java
PS C:\Users\UO309022\Desktop\alg_JulioRegueiraGonzalezUO309022\p12> java -Xint p12.Bucle5 1
n       tiempo  repeticiones    contador
100     4       1               490000
200     24      1               2560000
400     114     1               12960000
800     534     1               64000000
1600    2486    1               309760000
3200    11485   1               1474560000
6400    53390   1               6922240000
PS C:\Users\UO309022\Desktop\alg_JulioRegueiraGonzalezUO309022\p12>
```

```
6400    53390   1               6922240000
PS C:\Users\UO309022\Desktop\alg_JulioRegueiraGonzalezUO309022\p12> java -Xint p12.Bucle6 1
n       tiempo  repeticiones    contador
100     61      1               7000000
200     527     1               64000000
400     4529    1               576000000
800     39203   1               5120000000
1600    337773  1               45056000000
PS C:\Users\UO309022\Desktop\alg_JulioRegueiraGonzalezUO309022\p12>
```

```
1600    337773  1               45056000000
PS C:\Users\UO309022\Desktop\alg_JulioRegueiraGonzalezUO309022\p12> java -Xint p12.Bucle7 1
n       tiempo  repeticiones    contador
100     480     1               100000000
200     7188    1               1600000000
400     114076  1               25600000000
PS C:\Users\UO309022\Desktop\alg_JulioRegueiraGonzalezUO309022\p12>
```

n	TBucle1(ms)	TBucle2(ms)	t1/t2
100	0	0	0
200	0	0	0
400	0	3	0
800	0	14	0
1600	0	53	0
3200	1	254	0,003937008
6400	1	943	0,001060445
12800	1	4224	0,000236742
25600	3	19301	0,000155432
51200	8	78386	0,000102059

n	TBucle3(ms)	TBucle2(ms)	t3/t2
100	1	0	1
200	3	0	3
400	16	3	5,333333333
800	70	14	5
1600	266	53	5,018867925
3200	1145	254	4,507874016
6400	4755	943	5,042417815
12800	20214	4224	4,785511364
25600	83737	19301	4,338479872
51200	343223	78386	4,378626285

n	Bucle4 Python (t)	Bucle4 Java NO JIT (t)	tPython/tJava
100	4	0	4
200	41	5	8,2
400	316	42	7,523809524
800	2641	324	8,151234568
1600	22371	2587	8,64746811
3200	203529	21023	9,681253865
6400	FDT	167364	-