


Algorithmics	Student information	Date	Number of session
	UO: 295368		4
	Surname: Álvarez Hernández	 Escuela de Ingeniería Informática Universidad de Oviedo	
	Name: Miguel		



Activity 1. Algorithm of Prim

I implemented two Prim algorithms. First I implemented a n^3 algorithm and then I optimized it to make it n^2 . In each algorithm I have commented the step by step in the .py file to understand it more easily. I measured the times of the n^2 one.

n	t Prim(ms)
256	31
512	156
1024	593
2048	2421
4096	9546
8192	40279
16384	201150

After making calculations with the formula $t_2 = (n_2/n_1)^2 * t_1$ we can assure that the times obtained in the table concur with the times expected