

Algorithmics	Student information	Date	Number of session
	UO:269546	20-04-21	6
	Surname: Fernández Arias		
	Name: Sara		

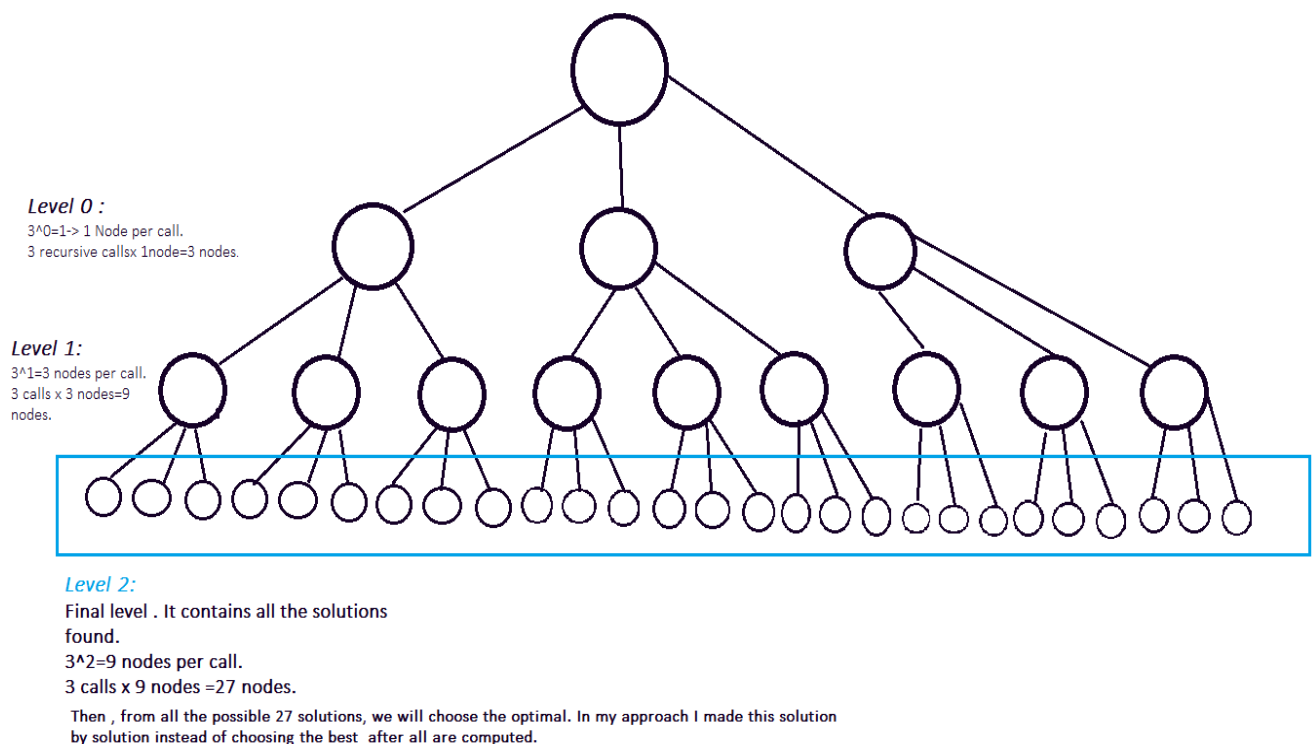
Activity 1.Validation results.

- Indicate in the document what the complexity of your algorithm is (or approximately).

Why you get that complexity?

For each call to backtracking() method , new node will be created. Since backtracking has three recursive calls , each level will 3^n nodes. Being n the level we are at.

An example for n=3 would be the following:



Note that each leftmost node will be the result of not adding the song to ANY block. The middle one will be the result of adding the node to block A and the rightmost will be the result of adding the song to block B.

Since In my implementation I check certain conditions for a solution to be considered valid, the number of nodes won't be exactly the same since some results will be discarded.

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- Indicate in the document (you can copy and paste the solution of your program) what is your solution for the following example: `BestList list01.txt 20`

List of songs:

```
id:3ld4R7 seconds:4:27 score:3475
id:8j4gE3 seconds:5:22 score:2834
id:0fmvy3 seconds:4:40 score:3842
id:8id4R7 seconds:4:27 score:3475
id:9u4gE3 seconds:6:59 score:2834
id:2lsdf9 seconds:3:22 score:3842
id:3j4yQ6 seconds:5:02 score:2834
id:06rwq3 seconds:4:48 score:3842
id:87UKo2 seconds:3:27 score:3475
id:5rtZe9 seconds:4:44 score:2834
```

Length of the blocks:20:00

Total score:27619,0

Total count:31030

Best block A:

```
id:3ld4R7 seconds:4:27 score:3475
id:0fmvy3 seconds:4:40 score:3842
id:8id4R7 seconds:4:27 score:3475
id:3j4yQ6 seconds:5:02 score:2834
```

Best block B:

```
id:9u4gE3 seconds:6:59 score:2834
id:2lsdf9 seconds:3:22 score:3842
id:06rwq3 seconds:4:48 score:3842
id:87UKo2 seconds:3:27 score:3475
```