Algorithmics	Student information	Date	Number of session	
	UO:UO277653	08/04/2021	6	Á
	Surname: Stanci	Escuela de Ingeniería Informaciona Información		N
	Name: Stelian Adrian			Univ



Activity 1. Validation results.

Indicate in the document what the complexity of your algorithm is (or approximately). Why you get that complexity?

Taking into account that at each song (level) we generate, in the worst case, 3 more calls to the backtracking method, we can say that the complexity is O(3ⁿ).

For example, at level 1 we have 3 nodes, at level 2 9 nodes, level 3 27 nodes... Also, for each node we can consider that it takes the same time. So the final complexity, as said before, results in $O(3^n)$

 Indicate in the document (you can copy and paste the solution of your program) what is your solution for the following example:

BestListlist01.txt 20

Number of songs: 10

```
List of songs:
```

id: 31d4R7 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: 20:0

Total score: 27619 Total counter: 47246

Best block A:

id: 0fmvy3 seconds: 4:40 score: 3842id: 21sdf9 seconds: 3:22 score: 3842id: 06rwq3 seconds: 4:48 score: 3842

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id: 87UKo2 seconds: 3:27 score: 3475

Best block B:

id: 31d4R7 seconds: 4:27 score: 3475id: 8id4R7 seconds: 4:27 score: 3475id: 3j4yQ6 seconds: 5:02 score: 2834id: 5rtZe9 seconds: 4:44 score: 2834