

Analysis of Algorithms

HOMEWORK III

Due on 20th of March, 2017

Answer if the theoretical complexities are correct

1. From Dasgupta

- (a) Do exercise 5.18 in Chapter 5
- (b) Then implement the Hoffman's code solution in C. Then, selecting a large enough corpus compare tell me what was your average compression.

2. From Cormen

- (a) Do exercise 15.10 (Back of the chapter 15) and implement the solution in C. Please, run it against the scenario described by
 - i. <http://statmath.wu-wien.ac.at/~zeileis/grunfeld/>

3. From Cormen 17.2 (Back of the chapter 17)