udent No:

Name - Surname:

25,12,2018

ALGORITHM ANALYSIS FINAL EXAM

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1) (30 pts) Solve the problem below with two different techniques and compare these techniques according to their worst cases." You have 10, 9, 5 and 1 cent coins and you want to pay 37 cents.

Find the minimum element of the array above by using

- a) a divide-and-conquer algorithm.
- b) a transform-and-conquer algorithm.
- 3) (30 pts) What is an algorithm? Explain your answer with a figure that contains the concepts, algorithm, problem, computer, input and output.

You have 60 minutes. Good Luck.
Assoc. Prof. Dr. Ruya SAMLI