Problem 4:

1. n is subject number, linear algorithm, O(n)

2. n is subject number, exponential complexity, O(n^n)

3.
      8 subjects = 16 sec or 5.320020294266869e-07 year
      16 subjects = 584942.417455072 year
      32 subjects = 4.634391290369428e+34 year
      for 321, I've had an OverFlowError