

MPRI 2-24-1: Algorithms and Uncertainty (2023)

Homework 6

Due on October 20, beginning of class

Instructions You can write your solutions either in English or French. Please observe the homework policy as described in the course web page.

Suppose you pay $c < 1$ Euros for every interview, but get a profit of n if you hired the best secretary. After interviewing the k -th secretary you can decide to

- hire this secretary
- continue interviewing
- stop interviewing at all.

In the later case your profit will be $-ck$, but at least you are sure that you loose not more money. Figure out the optimal strategy, that is what to do after interviewing the k -th secretary.