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.