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Multiple Secretary Problem

We consider two secretary type problems where a selector who has only one choice is to choose a maximal element from a set that is a union of m linearly ordered sets. In the first problem (*with many lives*) the candidates from the first linearly ordered set are examined and if no candidate is chosen then the candidates from the second set are examined etc. In the second (*cyclic*) problem the first candidate comes from the first set and every next candidate comes from the next set and if no choice is made the search returns to the first set etc. In both cases an optimal stopping time and the probability of its success are found as well as their asymptotic behaviour.

This is joint work with Michał Morayne