CS 333202: Probability and Statistics HW6 Part I

- (a) In the Banach matchbox problem, HW5 part II 3, find the probability that when the first matchbox is emptied (not found empty) there are exactly m matches in the other box.
 - (b) In the Banach matchbox problem, HW5 part II 3, find the probability that the box which is emptied first is not the one that is first found empty.
- 2. Balls are randomly withdrawn, one at a time without replacement, from an urn that initially has N white and M black balls. Find the probability that n white balls are drawn before m black balls, $n \leq N, m \leq M$.