Homeworks for 29.9.1997 (Pasi Lassila)

1. Calculate the blocking probabilities using the recursive algorithm (i.e. show the intermediate steps) for the following case: $C = 6, b_1 = 2, b_2 = 3, \rho_1 = 0.5, \rho_2 = 1$

2. (Problem 2.1 from the book)

For the stochastic knapsack, derive an expression for $\partial B_l / \partial \rho_k$, the derivative of the blocking probability for class-l object with respect to ρ_k. Develop an efficient recursive algorithm to calculate $\partial B_l / \partial \rho_k$, $1 \leq k, l \leq K$