

5. Suppose patients enter a clinical trial in the order given by the table below. The variables V_1 and V_2 in the table refer to two binary variables that are considered important prognostic factors.

Patient No.	V_1	V_2	simple randomization	stratified randomization
1	1	0		
2	1	1		
3	0	0		
4	1	0		
5	1	0		
6	0	0		
7	1	0		
8	1	1		
9	0	1		
10	0	1		
11	0	1		
12	1	0		
13	1	1		
14	0	0		
15	1	1		
16	0	1		
17	1	0		
18	0	0		
19	1	0		
20	0	1		

- (a) The patients are to be assigned to either treatments A or B. Using random numbers fill in the treatment assignments in the previous table using
 - (i) simple randomization
 - (ii) permuted block randomization within strata using blocks of size 2 or 4 chosen at random with equal probability

Remark: Although you may collaborate with each other on general understanding of this problem, I want everyone to generate their own set of random numbers independently of each other.

- (b) For each of the two allocation schemes summarize the balance you achieved
 - (i) overall
 - (ii) by strata (in combination)
 - (iii) by prognostic factor (marginally)