

IMM - DTU

02405 Probability
2013-9-5
BFN/bfn

Solution for exercise 1.6.8 in Pitman

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$A_{i,j}$ as the event that the i 'th person is born the j 'th day of the year.

We have $P(A_{i,j}) = \frac{1}{365}$ and that $A_{1,i}$, $A_{2,j}$, and $A_{3,k}$ are independent. The event B_{ij} can be expressed by

$$B_{ij} = \cup_{k=1}^{365} (A_{i,k} \cap A_{j,k})$$

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