

Question 11

Ana Bhattacharjee

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The probability that ten students have different birthdays is:

$$P = \frac{364 * 363 * 362 * * 361 * 360 * * 359 * 358 * 357 * 356}{365} \quad (1)$$

$$P \approx 0.883 \quad (2)$$

The probability that two students among the ten students share the same birthday is :

$$P = 1 - \frac{364}{365} \quad (3)$$

$$P \approx 0.002 \quad (4)$$