

[tex61] Information of sequenced messages

In which months of the year do Ellen, Nancy, and Susan have their birthdays? Three messages X, Y, Z about their birthdays are received by persons a, b, c :

Person a receives the messages in the sequence X, Y, Z .

Person b receives the messages in the sequence Z, X, Y .

Person c receives the messages in the sequence Y, Z, X .

The three messages are the following:

X : Nancy's birthday is in April.

Y : Ellen's birthday is in a later month than Nancy's birthday.

Z : Susan's birthday is in the same month as Ellen's birthday.

Find the numerical value of the information contained in the messages X, Y, Z as received by each person a, b, c .

Solution: