

1, Solution 2.23: My logic for the third link does not work! (See below).

I will change the question to ask instead for the expected cost of the second link.

For example, let us assume the following costs:

A to B: 60

A to C: 30

A to D: 40

B to C: 50

B to D: 20

C to D: 70

Then the first link is B to D with a cost of 20.

The second link is A to D with a cost of 40.

(The cost of A to C does not enter into this decision.)

Of necessity the cost of B to C is greater than the cost of the second link.

Of necessity the cost of D to C is greater than the cost of the second link.

However, the cost of A to C of 30 is less than the cost of the second link of 40.

Thus, we can not apply my logic to the third link, by subtracting 40 from 30.