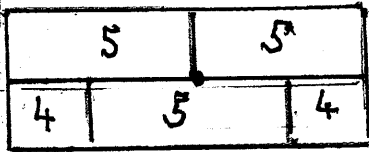
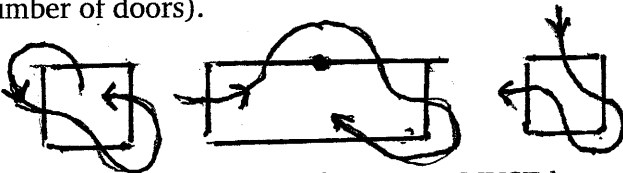


In other words, there are **three rooms each with five doors** and **two rooms, each with four doors**.



A four-door room must EITHER have both ends of the line inside OR neither end inside it. This is because 'entering and exiting' go in pairs. (As a corollary, this is true of any room with an even number of doors).



By contrast, a five-door room MUST have one end of a line inside it. This is so because 'entering and exiting' go in pairs, so there is always one side not paired. (As a corollary, this is true of any room with an odd number of doors).

But there are three five-door rooms.

So if there is a solution to the problem, there would have to be three ends to the solution line, one in each of these chambers.

But our line can only have two ends. Therefore the problem is impossible.

Nowadays, with greater computer literacy, school pupils would not expect a computer to be able to do something that was logically impossible. Or would they? Logic alone can't decide this, so we had best try out our proof on them... and find out.

All clear thinking (& apologetics) is hindered by the general lack of logic. Without geometry to teach logic, it is just possible that computers might.

You must be logical to operate a computer. A computer only works with a logically constructed program and a logically minded operator.

The computer is ruthless: Yes or No, Y/N? it flashes at you. You must answer **Yes OR No** -- or it will beep relentlessly at you until you do!

Computers are little children: A child's power of reasoning leads him into humorous absurdity, because of the way he takes things so literally. There is an example of this in the first appendix at the back of the *Catholic Family Catechism*: the mother told her little girl, "God does not have a body." She laughed in her mother's face: "Then he must look funny, with His legs joined on to His head!"

Computers are similar: they are logical (even search engines using 'sloppy logic') or they can't work

at all, but their logic may not be enough for a particular problem, and then they come up with weird answers due to lack of essential information that no one had yet told them.

Perhaps familiarity with computers and their programming will lead to a revival of the study of logic and geometry. It might be promoted also by a revival of grammar and syntax. The Kingman Committee in England, if it has its way, has just decided [before 1988] that children are once again to be *permitted to know* and use words like **noun, verb, adjective, pronoun**, and so on. They are not "prescribed", nor are they proscribed either. Commenting on this report, *The Daily Telegraph* (London) commented that a semi-literate democracy is ultimately unworkable, and that the Kingman report is only semi-satisfactory.

The Telegraph editorial praises the report for discarding the idea of any notion of correct or incorrect usage is an affront to personal liberty. But it criticises it too for the false choice between creative English and parsing a sentence. Our forebears managed both, and their creativity did not suffer.

The Konigsberg Bridges

Konigsberg, formerly in Prussia, renamed Kaliningrad, west Baltic Sea, had a puzzle-walk.

Could all seven bridges linking island, peninsula and mainland, be traversed just once?

No one ever did it.

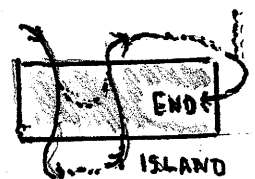
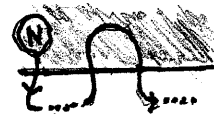
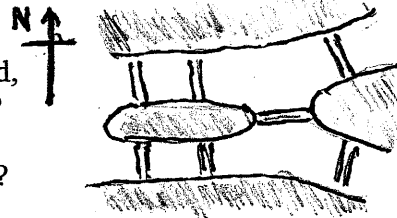
So was it possible?

Land N has 3 northern bridgeheads; Island has 5; land S south has 3; land E between has 3. All are odd-numbers.

Starting at N by stepping onto a bridge leaves a further IN & OUT, so it can't finish there.

But after that, Island & S & E are entered from a bridge, leaving an even-number of bridges for a new OUT & INs: but *three places can't be end points*.

Therefore the problem is impossible.



Father James Tierney

P.S. The east-west bridge has now been replaced by a causeway, so the puzzle-walk has ceased to exist, except on paper.