



# PROBLEM # 674

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**Posted on:**21 April

**Due on:**28 April

## THE LAST PROBLEM OF THE SEMESTER

**Best wishes for success in the finals!**

In the city of Corruptville, politicians never tell the truth and non-politicians always tell the truth.

1. A stranger meets Alice, Bob, Chuck, all of them from Corruptville and asks Alice, "Are you a politician?", and Alice answers the question. Bob says that Alice denied being a politician. Chuck says that Alice is a politician.

How many of the three people are politicians?

2. The stranger now meets three other natives of Corruptville: Dave, Ed and Felix, and asks them, "How many of you three are politicians?" Dave says, "We are all politicians". Ed says, "No, just two of us are politicians". Felix then says, "That isn't true either."

Is Felix a politician?

The problem of the week can be found online at

<http://potw.mth.cmich.edu/>

Solutions can be mailed to

[chakr2d@cmich.edu](mailto:chakr2d@cmich.edu)

with subject line "POTW 674"