

Test case1:

Provers wants to prove they knows the password and enters the cave. Verifiers cannot see what provers want.

Test case2:

Provers provide do not provide the password; verifiers are able to verify the provers identification.

Test case3:

Provers able to prove her knowledge of her password while giving no knowledge to the verifiers.

Test case4:

Provers encrypt all edges and sends encryptions to verifiers, but not the keys. Verifiers requires provers to send keys for a random edge and verifies them.

Test case5:

The verifiers of the interactive proof gains no knowledge from provers, but the proof can convincing the verifiers.