print("Well, we meet again! We've been stargazing! ")

print("How close are the stars? No-one knows... except AI.")

print(" [Enter AI] ")

print()

print("[Press return to continue.]")

ai = input ()

#cls

print()

print("Hello all! These are my favorite stars of the Big Screen.")

print("They all know each other! Ask me about the degrees of separation")

print("and i will tell you just how far apart they are.")

print("My lucky stars are:")

print()

print("Gary Sinise\n")

print("Tom Cruise\n")

print("Tom Hanks\n")

print("Kevin Bacon\n")

print("Robin Wright\n")

print()

print("Are we ready to start?")

print("OK!")

print()

print("Where is the First?\n")

aa = input()

print()

print("Where is the Second?\n")

bb = input()

print()

if aa == ("Tom Cruise"):

print (aa)

if bb == ("Kevin Bacon"):

print (bb)

print()

print("There is one degree of separation between Tom Cruise and Kevin Bacon")

print("(1,2)")

print("1: Tom Cruise starred in A Few Good Men, 1992 with Kevin Bacon.")

print()

if bb == ("Tom Hanks"):

print (bb)

print()

print("There are two degrees of separation between Tom Cruise and Tom Hanks.")

print("(1,2),(2,3)")

print("1: Tom Cruise starred in A Few Good Men, 1992 with Kevin Bacon.")

print("2: Kevin Bacon starred in Apollo 13, 1992 with Tom Hanks.")

print()

if bb == ("Gary Sinise"):

print (bb)

print()

print("There are two degrees of separation between Tom Cruise and Gary Sinise")

print("(1,2),(2,4)")

print("1: Tom Cruise starred in A Few Good Men, 1992 with Kevin Bacon")

print("2: Kevin Bacon starred in Apollo 13, 1992 with Gary Sinise.")

print()

if bb == ("Robin Wright"):

print (bb)

print()

print("There are three degrees of separation between Tom Cruise and Robin Wright")

print("(1,2),(2,3),(3,5)")

print("1: Tom Cruise starred in A Few Good Men, 1992 with Kevin Bacon.")

print("2: Kevin Bacon starred in Apollo 13, 1992 with Tom Hanks.")

print("3: Tom Hanks starred in Forrest Gump 1994 with Robin Wright.")

print()

if aa == ("Kevin Bacon"):

print (aa)

if bb == ("Tom Cruise"):

print (bb)

print()

print("There is one degree of separation between Kevin Bacon and Tom Cruise.")

print("(1,1)")

print("1: Kevin Bacon starred in A Few Good Men, 1992 with Tom Cruise.")

print()

if bb == ("Tom Hanks"):

print (bb)

print()

print("There is one degree of separation between Kevin Bacon and Tom Hanks.")

print("(2,3)")

print("1: Kevin Bacon starred in Forrest Gump, 1994 with Tom Hanks.")

print()

if bb == ("Gary Sinise"):

print (bb)

print()

print("There is one degree of separation between Kevin Bacon and Gary Sinise.")

print("(2,4)")

print("1: Kevin Bacon starred in Apollo 13, 1995 with Gary Sinise.")

print()

if bb == ("Robin Wright"):

print (bb)

print()

print("There are two degrees of separation between Kevin Bacon and Robin Wright.")

print("(2,3)(3,5)")

print("1: Kevin Bacon starred in Apollo 13, 1995 with Tom Hanks.")

print("2: Tom Hanks starred in Forrest Gump, 1994 with Robin Wright.")

print()

if aa == ("Tom Hanks"):

print (aa)

if bb == ("Kevin Bacon"):

print (bb)

print()

print("There is one degree of separation between Tom Hanks and Kevin Bacon")

print("(2,2)")

print("1: Tom Hanks starred in Apollo 13, 1995 with Kevin Bacon.")

print()

if bb == ("Tom Cruise"):

print (bb)

print()

print("There are two degrees of separation between Tom Hanks and Tom Cruise.")

print("(2,2),(1,1)")

print("1: Tom Hanks starred in Apollo 13, 1995 with Kevin Bacon.")

print("2: Kevin Bacon starred in A Few Good Men 1992 with Tom Cruise.")

print()

if bb == ("Gary Sinise"):

print (bb)

print()

print("There is one degree of separation between Tom Hanks and Gary Sinise")

print("(3,4)")

print("1: Tom Hanks starred in Forrest Gump, 1994 with Gary Sinise.")

print()

if bb == ("Robin Wright"):

print (bb)

print()

print("There is one degree of separation between Tom Hanks and Robin Wright")

print("(3,5)")

print("1: Tom Hanks starred in Forrest Gump, 1994 with Robin Wright.")

print()

if aa == ("Gary Sinise"):

print (aa)

if bb == ("Kevin Bacon"):

print (bb)

print()

print("There is one degree of separation between Gary Sinise and Kevin Bacon")

print("(2,2)")

print("1: Gary Sinise starred in Apollo 13, 1995 with Kevin Bacon.")

print()

if bb == ("Tom Hanks"):

print (bb)

print()

print("There is one degree of separation between Gary Sinise and Tom Hanks.")

print("(2,3)")

print("1: Gary Sinise starred in Forrest Gump, 1994 with Tom Hanks.")

print()

if bb == ("Tom Cruise"):

print (bb)

print()

print("There are two degrees of separation between Gary Sinise and Tom Cruise.")

print("(2,2),(1,1)")

print("1: Gary Sinise starred in Apollo 13, 1995 with Kevin Bacon.")

print("2: Kevin Bacon starred in A Few Good Men, 1992 with Tom Cruise")

print()

if bb == ("Robin Wright"):

print (bb)

print()

print("There is one degree of separation between Gary Sinise and Robin Wright")

print("(3,5)")

print("1: Gary Sinise starred in Forrest Gump, 1994 with Robin Wright.")

print()

if aa == ("Robin Wright"):

print (aa)

if bb == ("Kevin Bacon"):

print (bb)

print()

print("There are two degrees of separation between Robin Wright and Kevin Bacon")

print("(3,2),(2,2)")

print("1: Robin Wright starred in Forrest Gump, 1994 with Tom Hanks.")

print("2: Tom Hanks starred in Apollo 13, 1995 with Kevin Bacon.")

print()

if bb == ("Tom Hanks"):

print (bb)

print()

print("There is one degree of separation between Robin Wright and Tom Hanks.")

print("(3,3)")

print("1: Robin Wright starred in Forrest Gump, 1994 with Tom Hanks.")

print()

if bb == ("Gary Sinise"):

print (bb)

print()

print("There is one degree of separation between Robin Wright and Gary Sinise")

print("(3,4)")

print("1: Robin Wright starred in Forrest Gump, 1994 with Gary Sinise.")

print()

if bb == ("Tom Cruise"):

print (bb)

print()

print("There are three degrees of separation between Tom Cruise and Robin Wright")

print("(3,3),(2,2),(1,1)")

print("1: Robin Wright starred in Forrest Gump, 1994 with Tom Hanks.")

print("2: Tom Hanks starred in Apollo 13, 1995 with Kevin Bacon.")

print("3: Kevin Bacon starred in A Few Good Men, 1992 with Tom Cruise")

print()