



Part A:


 <i>dating(sally,dan).</i>	  
true	1
 <i>friendship(josh,brittney).</i>	  
true	1
false	





Part B:

 <i>warmer_than(phoenix,la).</i>	  
phoenix is warmer than la	
true	1
 <i>colder_than(boston,dallas).</i>	  
boston is colder than dallas	
true	1

Part C:

 `actor(, A,), director(,`
`A)`
A = joseph_d_kucan
A = g_rard_depardieu
A = joel_coen
A = joel_coen
Next 10 100 1,000 Stop

 `movie(A,), actor(A,`
`john_goodman,), actor(A,`
`jeff_bridges,)`
A = the_big_lebowski
Next 10 100 1,000 Stop

 **released_after**(M, 2000).   





M = cq

M = girl_with_a_pearl_earring

M = hail_caesar

M = intolerable_cruelty

Next 10 100 1,000 Stop

 **released_before**(M, 2000).   





M = american_beauty

M = anna

M = barton_fink

M = the_big_lebowski

Next 10 100 1,000 Stop

 **same_year**(M1, M2).   

M1 = M2, **M2** = american_beauty

M1 = american_beauty,

M2 = star_wars_episode_i__the_phantom_menace

M1 = american_beauty,

M2 = torrance_rises

M1 = american_beauty,

M2 = the_virgin_suicides

M1 = american_beauty,

M2 = my_brother_the_pig

Next 10 100 1,000 Stop



The image shows a Jupyter Notebook interface. At the top, there is a toolbar with a gear icon, a download icon, a close icon, and a refresh icon. Below the toolbar, the code `co_star(A1, A2).` is entered. The output of the code is a list of pairs of actor names, where the first name is in bold red text and the second name is in regular black text. The output is as follows:

```
A1 = A2, A2 = kevin_spacey
A1 = kevin_spacey,
A2 = wes_bentley
A1 = kevin_spacey,
A2 = chris_cooper
A1 = kevin_spacey,
A2 = peter_gallagher
A1 = kevin_spacey,
A2 = scott_bakula
```

At the bottom of the notebook, there is a row of buttons: "Next", "10", "100", "1,000", and "Stop".