

costume. map<string, pair<int, list<pair<string, string>>>

First	Second	First	Second.
"ballerina"	X→3		
"pirate"	X→X→3	<div> <div>(Jackson, Sharon)</div> <div>next</div> <div>prev</div> </div> <div> <div>(Rodriguez, Paul)</div> <div>next</div> <div>prev</div> </div>	
"Popeye"	1		
"transformer"	X→X→0	<div> <div>(Lee, Betty)</div> <div>next</div> <div>prev</div> </div> <div> <div>(Jackson, Sharon)</div> <div>next</div> <div>prev</div> </div>	
"Cinderella"	X→X→1	<div> <div>(Lee, Betty)</div> <div>next</div> <div>prev</div> </div>	

The "\ " means changed and deleted.

The second of second is a list with pair and the first name and last name are in reverse order because that's how I implement this.

I draw that pair in "( )" instead of split them into first and second to make it clear to see.

people map < pair < string, string >, pair < bool, string > >

First

Second

(Jackson, Sharon)

~~(true, pirate)~~ → (true, transformer)

(Rodriguez, Paul)

(true, pirate)

(Lee, Betty)

~~(true, Cinderella)~~ → (true, transformer) → ~~(false, witch)~~

(Brown, Mary)

(false, transformer)

↓  
this action doesn't  
exist, draw it  
to make it clear to see  
the people map do nothing  
if the costume doesn't exist  
or is available.