

Frontier Code

9am

Date

- Set of arbitrary objects that need to be ordered & sorted
- File read
File write
- Implement comparable or use multiple lists

left sock \rightarrow pants
pants \rightarrow belt

left sock	pants
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\neq \rightarrow $=$

Suit jacket \rightarrow left shoe

left sock	pants	belt
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\neq \neq \neq

\rightarrow ?
?
?

- tree

1 left sock
After: []
Before: [pants]
pants
5 After: [left sock, right sock, dress shirt]
Before: [belt, suit jacket]
belt
7 After: [pants]
Before: [suit jacket]
suit jacket
8 After: [t-shirt, dress shirt, tie, pants, belt]
Before: [left shoe, right shoe, overcoat, sun glasses]
left shoe
9 After: [suit jacket]
Before: [overcoat]
right shoe
10 After: [suit jacket]
Before: [overcoat]
overcoat
After: [left shoe, right shoe, suit jacket]
Before: []
right sock
2 After: []
Before: [pants]
t-shirt
3 After: []
Before: [suit jacket, dress shirt]
dress shirt
4 After: [t-shirt]
Before: [pants, suit jacket, tie]
tie
6 After: [dress shirt]
Before: [suit jacket]
sun glasses
11 After: [suit jacket]
overcoat
After: [sun glasses]
Before: []

first pass
second pass
third pass
fourth pass
fifth pass
sixth pass

①

Left sock
Before Pants

Pants
After left sock

②

Left sock
Before Pants

Pants
After left sock,

st pass
create all items in

Print

Search
null

for items with
before to get #1

size = 0

left sock, right sock, tshirt. sort. print

~~everything after w left sock~~

left sock

↓
pants → after L sock
remove already printed ↑

R sock dress shirt
↑ = dress shirt

↓
belt → after pants
remove already found

belt before suit jacket

↓
suit jacket → after t shirt dress shirt tie pants belt
remove

Print

1st anything that after size = 0

left sock, right sock, t-shirt

size = 1

belt, left shoe, right shoe, dress shirt

- 1 left sock → pants
- 2 pants → belt
- 3 suit jacket → left shoe
- 4 suit jacket → right shoe
- 5 left shoe → overcoat

~~t-shirt~~

- 6 right sock → pants
- right shoe → overcoat
- t-shirt → suit jacket
- t-shirt → dress shirt

- dress shirt → pants
- dress shirt → suit jacket
- tie → suit jacket
- pants → suit jacket

- belt → suit jacket
- suit jacket → overcoat
- dress shirt → tie
- suit jacket → sunglasses
- sunglasses → overcoat

printed
based
on
alphabetical
sort

Output

→ left sock, right sock, t-shirt
dress shirt
pants, tie
belt
suit jacket
left shoe, right shoe, sunglasses
overcoat

recurse
print reversed start at overcoat find all
dependants,

- (A) Left Sock
- (B) ~~belt~~ Pants
- (C) Belt
- (D) Suit Jacket
- (E) Left Shoe
- (F) Right Shoe