Rules and Explanations

Start:

IF: Initial-fact

THEN: Read input

If yes then load order 1 else load order 2

B1:

IF: Step is check-order

A Pepsi in the order

THEN: set pepsi to yes

B2:

IF: Step is check-order

Potato chips is in order

THEN: ask the user if they want to add a pepsi

B3:

IF: Step is check-order

THEN: Stop step check-order

Begin bagging large items

B4:

IF: Step is bag-large-items

A bottle in the order

A bag with room for a bottle

THEN: Put bottle in bag

B5:

IF: Step is bag-large-items

A large item in the order

A bag with room for a large item

THEN: Put the large item in the bag

B6:

IF: Step is bag-large-items

A large item in the order

THEN: Start a new bag

B7:

IF: Step is bag-large-items

THEN: Start bagging medium items

B8:

IF: Step is bag-medium-items

A non-crushable medium item in the order

A bag with room for a medium item

THEN: Put the item in the bag

B9:

IF: Step is bag-medium-items

A non-crushable medium item in the order

THEN: Start a new bag

B10:

IF: Step is bag-medium-items

THEN: Start bagging small items

B11:

IF: Step is bag-small-items

A small item in the order

A bag with room for a small item

THEN: Put the small item in the bag

B12:

IF: Step is bag-small items

A small item in the order

THEN: Start a new bag

B13:

IF: Step is bag-small items

THEN: Start bagging crushable items

B14:

IF: Step is bag-crushable-items

A crushable item in the order

A bag with room for item

THEN: Put the item in the bag

B15:

IF: Step is bag-crushable-items

A crushable item in the order

THEN: Start a new bag

B16:

IF: Step is bag-crushable-items

THEN: Bagging is complete