

## BAGGER RULES

- B1. IF *step* is *check-order*  
and there are potato chips in *to-be-bagged*  
and there is no Pepsi in *to-be-bagged*  
THEN ask the customer whether to add a bottle of Pepsi to *to-be-bagged*.
- B2. IF *step* is *check-order*  
THEN *step* is NOT *check-order*  
*step* is *bag-large-items*.
- B3. IF *step* is *bag-large-items*  
and there is a large item in *to-be-bagged*  
and the large item is a bottle  
and the current bag contains less than 6 large items  
THEN put the large item in the current bag  
and delete the large item from *to-be-bagged*.
- B4. IF *step* is *bag-large-items*  
and there is a large item in *to-be-bagged*  
and the current bag contains less than 6 large items  
THEN put the large item in the current bag  
and delete the large item from *to-be-bagged*.
- B5. IF *step* is *bag-large-items*  
and there is a large item in *to-be-bagged*  
THEN give the current bag to the customer  
and start a new bag.
- B6. IF *step* is *bag-large-items*  
THEN *step* is NOT *bag-large-items*  
*step* is *bag-medium-items*.
- B7. IF *step* is *bag-medium-items*  
and there is a medium item in *to-be-bagged*  
and the medium item is frozen  
and the medium item is not in a freezer bag  
THEN put the medium item in a freezer bag.
- B8. IF *step* is *bag-medium-items*  
and there is a medium item in *to-be-bagged*  
and (the current bag is empty or the current bag contains only medium items)  
and the current bag does not contain any large items  
and the current bag contains less than 12 medium items  
THEN put the medium item in the current bag  
delete the medium item from *to-be-bagged*.

- B9. IF *step* is *bag-medium-items*  
and there is a medium item in *to-be-bagged*  
THEN give the current bag to the customer  
and start a new bag.
- B10. IF *step* is *bag-medium-items*  
THEN *step* is NOT *bag-medium-items*  
*step* is *bag-small-items*.
- B11. IF *step* is *bag-small-items*  
and there is a small item in *to-be-bagged*  
and the current bag does not contain any large items  
and the current bag does not contain any medium items  
and the current bag contains less than 18 small items  
THEN put the small item in the bag  
and delete the small item from *to-be-bagged*.
- B12. IF *step* is *bag-small-items*  
and there is a small item in *to-be-bagged*  
THEN give the current bag to the customer  
and start a new bag.
- B13. IF *step* is *bag-small-items*  
THEN *step* is NOT *bag-small-items*  
*step* is done.