CLAIMS

1. An information processing device characterized by comprising a control unit configured to execute:

acquiring information on whether there is trash in a trash bag disposed in a trash can; and

placing an order for a product related to the trash, the product being sold by a beverage vending machine placed next to the thrash can, based on the number of times a state in which there is the trash in the trash bag is changed to a state in which there is no trash in a trash bag disposed in the trash can.

2. The information processing device according to claim 1, wherein the control unit is configured to:

acquire a detection value of a sensor that is configured to detect an odor and that is disposed in the trash can, as information on whether there is the trash in the trash bag disposed in the trash can; and

determine that the state in which there is the trash in the trash bag has changed to the state in which there is no trash in the trash bag when the detection value of the sensor that is configured to detect the odor is decreased by a predetermined amount or more in a predetermined period.

3. The information processing device according to claim 1, wherein the control unit is configured to:

acquire a detection value of a sensor that is configured to detect an amount of trash in the trash bag as information on whether there is the trash in the trash bag disposed in the trash can; and

determine that the state in which there is the trash in the trash bag is changed to the state in which there is no trash in the trash bag when the detection value of the sensor that is

configured to detect the amount of the trash is decreased by a predetermined amount or more in a predetermined period.

4. The information processing device according to any one of claims 1 to 3, wherein the control unit is configured to place the order for the product related to the trash when the number of times the state in which there is the trash in the trash bag is changed to the state in which there is no trash in the trash bag is a predetermined number of times or more.

5. The information processing device according to any one of claims 1 to 4, wherein the control unit is configured to:

count the number of times the state in which there is the trash in the trash bag is changed to the state in which there is no trash in the trash bag;

calculate a remaining quantity of trash bags based on the counted number of times; and

place the order for the product related to the trash when the calculated remaining quantity of trash bags is decreased to a threshold for placing an order for a trash bag.

6. The information processing device according to any one of claims 1 to 5, wherein the control unit is configured to reset the number of times the state in which there is the trash in the trash bag is changed to the state in which there is no trash in the trash bag when the order for the product related to the trash is placed.

7. An information processing method characterized by comprising executing the following by a computer:

acquiring information on whether there is trash in a trash bag disposed in a trash can; and

placing an order for a product related to the trash, the product being sold by a beverage vending machine placed next to the thrash can, based on the number of times a state in

which there is the trash in the trash bag is changed to a state in which there is no trash in a trash bag in the trash can.

8. The information processing method according to claim 7, wherein the computer:

acquires a detection value of a sensor that is configured to detect an odor and that is disposed in the trash can, as information on whether there is the trash in the trash bag disposed in the trash can; and

determines that the state in which there is the trash in the trash bag is changed to the state in which there is no trash in the trash bag when the detection value of the sensor that is configured to detect the odor is decreased by a predetermined amount or more in a predetermined period.

9. The information processing method according to claim 7, wherein the computer:

acquires a detection value of a sensor that is configured to detect an amount of trash in the trash bag as information on whether there is the trash in the trash bag disposed in the trash can; and

determines that the state in which there is the trash in the trash bag is changed to the state in which there is no trash in the trash bag when the detection value of the sensor that is configured to detect the amount of the trash is decreased by a predetermined amount or more in a predetermined period.

10. The information processing method according to any one of claims 7 to 9, wherein the computer is configured to place the order for the product related to the trash when the number of times the state in which there is the trash in the trash bag is changed to the state in which there is no trash in the trash bag is a predetermined number of times or more.

11. The information processing method according to any one of claims 7 to 10, wherein the computer:

counts the number of times the state in which there is the trash in the trash bag is changed to the state in which there is no trash in the trash bag;

calculates a remaining quantity of trash bags based on the counted number of times; and

places the order for the product related to the trash when the calculated remaining quantity of trash bags is decreased to a threshold for placing an order for a trash bag.

12. The information processing method according to any one of claims 7 to 11, wherein the computer resets the number of times the state in which there is the trash in the trash bag is changed to the state in which there is no trash in the trash bag when the order for the product related to the trash is placed.

13. A system, characterized by comprising:

a trash can configured to transmit information on whether there is trash in a trash bag disposed in the trash can; and

a server configured to (i) receive information on whether there is the trash in the trash bag, and (ii) place an order for a product related to the trash, the product being sold by a beverage vending machine placed next to the thrash can, based on the number of times a state in which there is the trash in the trash bag is changed to a state in which there is no trash in a trash bag in the trash can.

14. The system according to claim 13, wherein the trash can is configured to transmit to the server, a detection value of a sensor that is configured to detect an odor and that is disposed in the trash can, as information on whether there is the trash in the trash bag disposed in the trash can.

15. The system according to claim 14, wherein the server is configured to determine that the state in which there is the trash in the trash bag is changed to the state in which there

is no trash in the trash bag when the detection value of the sensor that is configured to detect the odor is decreased by a predetermined amount or more in a predetermined period.

16. The system according to claim 13, wherein the trash can is configured to transmit to the server, a detection value of a sensor that is configured to detect an amount of trash in the trash bag as information on whether there is the trash in the trash bag disposed in the trash can.

17. The system according to claim 16, wherein the server is configured to determine that the state in which there is the trash in the trash bag is changed to the state in which there is no trash in the trash bag when the detection value of the sensor that is configured to detect the amount of the trash is decreased by a predetermined amount or more in a predetermined period.

18. The system according to any one of claims 13 to 17, wherein the server is configured to place the order for the product related to the trash when the number of times the state in which there is the trash in the trash bag is changed to the state in which there is no trash in the trash bag is a predetermined number of times or more.

19. The system according to any one of claims 13 to 18, wherein the server is configured to:

count the number of times the state in which there is the trash in the trash bag is changed to the state in which there is no trash in the trash bag;

calculate a remaining quantity of trash bags based on the counted number of times; and

place the order for the product related to the trash when the calculated remaining quantity of trash bags is decreased to a threshold for placing an order for a trash bag.

20. The system according to any one of claims 13 to 19, wherein the server is configured to reset the number of times the state in which there is the trash in the trash bag is changed to the state in which there is no trash in the trash bag when the order for the product related to the trash is placed.

21. A non-transitory storage medium storing instructions that are executable by one or more processors and that cause the one or more processors to perform functions characterized by comprising:

acquiring information on whether there is trash in a trash bag disposed in a trash can; and

placing an order for a product related to the trash, the product being sold by a beverage vending machine placed next to the thrash can, based on the number of times a state in which there is the trash in the trash bag is changed to a state in which there is no trash.