CLAIMS

1. A method implemented by one or more computing devices, the method comprising:

receiving data to be processed;

determining whether a first random value corresponding to the data to be processed is stored in a storage medium associated with the one or more computing devices;

performing a corresponding operation on the data to be processed based at least in part on a determination result of whether the first random value corresponding to the data to be processed is stored in the storage medium associated with the one or more computing devices, the corresponding operation comprising one of processing the data to be processed using the first random value or processing the data to be processed using a second random value;

monitoring a length of storing time of the first random value or the second random value; and

resetting the length of storing time of the first random value in response to the determination that the first random value corresponding to the data to be processed is stored in the storage medium associated with the one or more computing devices;

wherein the data to be processed comprises order data, and wherein determining whether the first random value corresponding to the data to be processed is stored in the storage medium associated with the one or more computing devices comprises determining whether an order identifier (ID) of the order data corresponds to the first random value is stored in the storage medium associated with the one or more computing devices.

2. The method of claim 1, further comprising processing the data to be

processed using the first random value in response to determining that the first random value corresponding to the data to be processed is stored in the storage medium associated with the one or more computing devices.

3. The method of claim 1, further comprising processing the data to be processed using the second random value in response to determining that the first random value corresponding to the data to be processed is not stored in the storage medium associated with the one or more computing devices.

4. The method of claim 3, further comprising:

obtaining the second random value for the data to be processed; and

storing the second random value in the storage medium associated with the one or more computing devices.

5. The method of claim 4, wherein obtaining the second random value for the data to be processed comprises:

presetting a predetermined number of preset random values;

randomly selecting a preset random value from the predetermined number of preset random values; and

designating the selected preset random value as the second random value for the data to be processed.

6. The method of claim 1, further comprising:

in response to a determination that the length of storing time is greater than a predetermined threshold value, removing the first random value or the second random value from the storage medium associated with the one or more computing devices.

7. A system comprising:

one or more processors; and

memory to maintain a plurality of components executable by the one or more processors, the plurality of components comprising:

a receiving module configured to receive data to be processed,

a query module configured to determine whether a corresponding random value for the data to be processed is stored in a storage medium associated with the system, and

a processing module configured to:

process the data to be processed using the corresponding random value in response to a determination that the corresponding random value for the data to be processed is stored in the storage medium associated with the system,

in response to a determination that the corresponding random value for the data to be processed is not stored in the storage medium associated with the system:

obtain an additional random value for the data to be processed,

process the data to be processed using the additional random value, and

store the additional random value in the storage medium associated with the system;

monitor a length of storing time of the corresponding random value, wherein the receiving module is configured further to receive order data, and wherein the query module is further configured to determine whether an order ID of the order data corresponds to the corresponding random value is stored in the storage medium associated with the system; and

wherein the processing module is configured further to reset the length of storing time of the corresponding random value in response to the determination that the corresponding random value for the data to be processed is stored in the storage medium associated with the system.

8. The system of claim 7, wherein the processing module is configured further to:

preset a predetermined number of preset random values;

randomly select a preset random value among the predetermined number of preset random values; and

designate the selected preset random value as the additional random value corresponding to the order data.

9. The system of claim 7, wherein the processing module is configured further to:

remove the corresponding random value from the storage medium associated with the system in response to the determination that the length of storing time is greater than a predetermined threshold value.

10. One or more computer-readable media storing computer-executable instructions that, when executed by one or more computing devices, instruct the one or more computing devices to perform acts comprising:

determining whether a first random value corresponding to data to be processed is stored in a storage medium associated with the one or more computing devices;

performing a corresponding operation on the data to be processed based at least in part on a determination result of whether the first random value corresponding to the data to be processed is stored in the storage medium associated with the one

or more computing devices, the corresponding operation comprising one of processing the data to be processed using the first random value or processing the data to be processed using a second random value; and

monitoring a length of storing time of the first random value or the second random value;

wherein the acts further comprise resetting the length of storing time of the first random value in response to the determination that the first random value corresponding to the data to be processed is stored in the storage medium associated with the one or more computing devices; and

wherein the data to be processed comprises order data, and wherein determining whether the first random value corresponding to the data to be processed is stored in the storage medium associated with the one or more computing devices comprises determining whether an order identifier (ID) of the order data corresponds to the first random value is stored in the storage medium associated with the one or more computing devices.

11. The one or more computer-readable media of claim 10, wherein the acts further comprise processing the data to be processed using the first random value in response to determining that the first random value corresponding to the data to be processed is stored in the storage medium associated with the one or more computing devices.

12. The one or more computer-readable media of claim 10, wherein the acts further comprise processing the data to be processed using the second random value in response to determining that the first random value corresponding to the data to be processed is not stored in the storage medium associated with the one or more computing devices.

13. The one or more computer-readable media of claim 12, wherein the acts further comprise:

obtaining the second random value for the data to be processed; and

storing the second random value in the storage medium associated with the one or more computing devices.

14. The one or more computer-readable media of claim 13, wherein obtaining the second random value for the data to be processed comprises:

presetting a predetermined number of preset random values;

randomly selecting a preset random value from the predetermined number of preset random values; and

designating the selected preset random value as the second random value for the data to be processed.

15. The one or more computer-readable media of claim 10, wherein the acts further comprise:

in response to a determination that the length of storing time is greater than a predetermined threshold value, removing the first random value or the second random value from the storage medium associated with the one or more computing devices.