```
// documentation for sinogaya_header.h

/**

*~~Function to input an array from the user.

*~~param array Pointer to the array where the input will be stored.

*~~param size The size of the array.

*/

#define void inputArray(int *array, int size);
```

```
/**

* ~~Function to calculate the mean of an array.

* ~~param array Pointer to the array of integers.

* ~~param size The size of the array.

* ~~return The mean of the array as a double.

*/

#define double calculateMean(int *array, int size);

/**

* ~~Function to calculate the median of an array.

* ~~param array Pointer to the array of integers.

* ~~param size The size of the array.

* ~~return The median of the array as a double.
```

#define double calculateMedian(int *array, int size);

*/

```
/**
* ~~Function to calculate the mode of an array.
* ~~param array Pointer to the array of integers.
* ~~ param size The size of the array.
* ~~return The mode of the array as an integer. Returns -1 if no mode is found.
*/
#define int calculateMode(int *array, int size);
/**
* ~~Function to calculate the variance of an array.
* ~~param array Pointer to the array of integers.
* ~~ param size The size of the array.
* ~~param mean The mean of the array.
* ~~return The variance of the array as a double.
*/
#define double calculateVariance(int *array, int size, double mean);
/**
* ~~Function to calculate the standard deviation of an array.
* ~~param variance The variance of the array.
* ~~return The standard deviation of the array as a double.
*/
#define double calculateStandardDeviation(double variance);
#endif
```