

# 組合語言 第四次上機考

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2022.01.05

# Floating Point Operations

## Input:

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Input an unsigned number N followed by N real numbers.  $N \leq 300$ .

## Output:

In the first line, please print out the minimum(MIN) and maximum(MAX) of all real numbers.

In the second line, please print out the sum (SUM) of all real numbers.

In the third line, please print out the product (PROD) of MAX and MIN.

In the fourth line, print out the average (SUM/N) of all real numbers.

In the fifth line, print out SQRT (sqrt(abs(SUM))).

# Floating Point Operations (Cont.)

## Sample Input      Sample Output

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9	-6.50000000E+000 +2.90000000E+001	// MIN MAX	40%
8.5	+6.75000000E+001	// SUM	20%
3.5	-1.88500000E+002	// PROD	15%
-1.5	+7.50000000E+000	// SUM/N	15%
-2.0	+8.2158383E+000	// SQRT(ABS(SUM))	10%
14.5			
29.0			
10.6			
11.4			
-6.5			

# 評分與扣分標準

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100 分:

- All codes are written using x86 instructions and floating-point instructions.
- Use ReadFloat and WriteFloat in your program.
- **扣20分** if you use C/C++ library like scanf(), printf() and user defined functions.