Task1

Deadline:D04 - 15.09.2016, C04,F04 - 16.09.2016

Prepare your programs as separate scripts for each sub-problem.  
**All** your scripts **must** contain description about task and author (you) in comments.  
EXAMPLE:  
# STUDENT: Vasya Pupkin  
# GROUP: EN1-X-04  
# TASK: Task1 problem A

# ! Read Chapters 4-5 (most of them you already know)

# (20pt) Problem A

Read five-digit number; find sum and product of digits.

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| Enter number:  94824  Sum is 27  Product is 2304 |

# (20pt) Problem B

Read one number N (0<N<128). Print binary representation of number N.

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| Enter number:  58  Binary form is 0111010 |

# (20pt) Problem C

Write program that reads numbers while negative number is not entered. Print maximum number among entered values as a result.

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| Enter numbers, stops when negative value is entered:  value: 5  value: 9  value: 2  value: 4  value: 8  value: -1  Maximum is 9 |

# (20pt) Problem D

Write program that reads N. Prompts N float numbers and finds MAXIMUM, MINIMUM and MEDIAN value between them.

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| Enter N: 5  Enter 1 number: 4.6  Enter 2 number: 1.2  Enter 3 number: -8.2  Enter 4 number: 5.0  Enter 5 number: -3.2  MAXIMUM is 5.0  MINIMUM is -8.2  MEDIAN is -0.12 |

# (20pt) Problem E

Create a program that prints, and finds sum of all numbers between 1 and 50 that are divisible by 2 or 3 but not divisible by 6.

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| Numbers that divisible by 2 or 3 but not 6:  2 3 4 8 9 10 14 15 16 20 21 22 26 27 28 32 33 34 38 39 40 44 45 46 50  Sum is 626 |

# (bonus 20pt) Problem F

Read corner coordinates of triangle (x1,y1,x2,y2,x3,y3) . Then read (X0,Y0) coordinates of one point.  
Find and output, if this point inside triangle, or outside, or on the line of triangle.

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| Enter triangle’s parameters  X1: 1.0  Y1: 1.0  X2: 5.0  Y2: 1.0  X3: 1.0  Y3: 5.0  Enter point coordinates  X: 2.0  Y: 2.0  This point is inside of the triangle |