Homework 8

- 1. Write a Javascript program that prints out the first 30 numbers in a fibonacci sequence which begins with 0, 1, ... (Fibonacci number https://en.wikipedia.org/wiki/Fibonacci_number).
- 2. Write a Javascript program that gets the three lengths of the edge of a cuboid on the prompt window. Calculate three surface areas and a volume of the cuboid. Output format is as below.

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Let a, b, c be each of the three lengths of edges of a cuboid. (Surface areas of a cuboid) = \{a \times b, b \times c, c \times a\} (Volume of a cuboid) = a \times b \times c
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The given lengths of edge of a cuboid is a-b-c. The surface area is x-y-z and the volume is v.

3. Write a Javascript program that make a reverse ordered array using pop() and push() function from an array that store any ten name of colors. Print the seven of very first elements of reversed array in a row.

Use: colors = ["red", "orange", "yellow", "green", "blue", "navy", "purple", "sky blue", "brown", "grey"];

4. Write a Javascript program that get a positive integer on prompt window (if the input is not a positive integer, throw a message as alert and ask the number again) and factorize it. Print the given input number and enumerate the factors in descending order.



Results

0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987 1597 2584 4181 6765 10946 17711 28657 46368 75025 121393 196418 317811 514229

The given lengths of edge of a cuboid is 10-20-40. The surface area is 200-800-400 and the volume is 8000.

grey brown sky blue purple navy blue green

400, 5 x 5 x 2 x 2 x 2 x 2

Homework 8 – How to submit

- Download the template for homework from class board in HisNet, and write report. The report should include
 - 'Codes with comments' and 'Screen shot of the result'.
- Submit 'report (in pdf)' and 'codes' in zip file.
 Please follow the file naming rule.

```
HW8_(Student Number) _(Name).zip ex: HW8_201101234_HongGilDong.zip
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- Upload it to HisNet.
- Deadline: 11.8 (Wednesday), 23:00