http://bit.ly/1V0iejh

Function:

- 1. A. Write a function double pow(int x,int y) & test it.
 - B. Calculate $9*a^5 + 13*b^-2 15*c^10$. Take a, b, c as input all are integers can be negative. [don't use any library function]
- 2. A.Test if a given number is power of two or not testPowTwo(int x) & test it. [don't use any library function]
 - B. Take a, b as input print all c that are power of two a \leq c \leq b.
- 3. A. Write a function fibonacci(n) returns you the n'th fibonacci. Test it.
 - B. Write a function isPrime (n) returns if a number is prime or not.. Test it.
 - C. Take k as input print first k prime fibonacci.

Array:

- 1. Array of size n Input/ Output.
- 2. Take an array of integers. Reverse the content of the array. (Don't use any additional array)

$$[2, 3, 7] \rightarrow [7, 3, 2]$$

3. Take an array of integers. Produce the multiplication array. Don't use nested loop.

$$[1, 2, 3,4] \rightarrow [24, 12,8,6]$$

 $24 = 2*3*4$
 $12 = 1*3*4$
 $8 = 1*2*4$

4. Take an array of integers. Number of unique element in a given array.

$$[1, 2, 5, 2, 3, 2, 1] \rightarrow 4$$

Onlines:

- 1. 0 2 5 -10 4 3 -12 5 what is the minimum initial energy needed so that no shortage occurs during the journey. +ve jump subtracts energy -ve jump adds. (A2)
- 2. All permutation of a given array. (B2)

Bitmask:

- 1. Print the bit pattern of a given number.
- 2. Number of 1 in given number.
- 3. Reverse the bit sequence.

String:

- 1. String input/ output.
- 2. String length determination.
- 3. Checking if a string is palindrome or not.
- 4.