

## Problem in Class

여러분들이 작성한 stack 을 이용한 이진수를 출력하는 프로그램을 활용해서, 이 이진수를 STACK 에 저장하여 push(0), pop(1), exit(2) 를 통해 십진수를 입력받거나 STACK 에 들어있는 2 진수를 출력하거나 프로그램을 종료하는 프로그램을 작성하시오. STACK 은 linked list 로 만들 것! 이진수는 문자열로 만들어 STACK 저장할 것!

Utilizing your program which converts the decimal number input into its binary number and prints out the binary number, push the binary number into STACK or pop from STACK or exit your program through push(0), pop(1), exit(2). You must use STACK made by linked list. You must store the binary number as string in STACK.

### Execution Example)

**Push (0), Pop (1), Exit (2) : 0**

**Push : 20**

**STACK Stat : 10100 (1)**

**Push (0), Pop (1), Exit (2) : 0**

**Push : 10**

**STACK Stat : 1010 10100 (2)**

**Push (0), Pop (1), Exit (2) : 0**

**Push : 15**

**STACK Stat : 1111 1010 10100 (3)**

**Push (0), Pop (1), Exit (2) : 1**

**Pop : 15 (1111)**

**STACK Stat : 1010 10100 (2)**

**Push (0), Pop (1), Exit (2) : 1**

**Pop : 10 (1010)**

**STACK Stat : 10100 (1)**

**Push (0), Pop (1), Exit (2) : 1**

**Push : 11**

**STACK Stat : 1011 10100 (2)**

**Push (0), Pop (1), Exit (2) : 2**