hw0205 40947021S

原程式碼:

```c
#include <stdio.h>
#include <stdint.h>
int main()
{
    int32_t number = 0;
    scanf("%d", &number);
    int32_t bit = 1;
    bit = bit << 31;
    for (int i = 0; i < 32; i++)
    {
        if (bit & number)
            printf("1");
        else
            printf("0");
        bit = bit >> 1;
    }
    return 0;
}
```

第 15 行處每一次 Arithmetic right shift 並不會在最高位處補 0 而是複製一個 1 ，故每一次右移會由 (1000...) => (1100...)

故要將 bit 改為 unsigned

```c
#include <stdio.h>
#include <stdint.h>
int main()
{
    int32_t number = 0;
    scanf("%d", &number);
    uint32_t bit = 1; //改為無 sign
    bit = bit << 31;
    for (int i = 0; i < 32; i++)
    {
        if (bit & number)
            printf("1");
        else
            printf("0");
        bit = bit >> 1;
    }
    return 0;
}
```