```
.MODEL SMALL
.STACK 100H
.DATA
    MSGA DB 'How many line do want to write: $'
    MSGB DB ' Requared copy-paste time: $'
    MSGC DB 'Case : $'
    MSGD DB 13,10,'$'
    INPUT DW ?
    OUTPUT DW ?
    TEMP DW ?
    CASE DW ?
    COUNT DW ?

.CODE
MAIN PROC
    MOV AX,@DATA
    MOV DS,AX
    MOV CASE,0

RAND_IO:
    LEA DX,MSGA
    MOV AH,9
    INT 21H
    MOV COUNT,0

    GET_INPUTS:                 ;Get Input
        MOV DX,0
        MOV BX,0
        MOV AH,1
        INT 21H

        CMP AL,0DH
        JE END_INPUTS

        CONVERT_TO_NUM:
            AND AX,000FH
            MOV TEMP,AX
            MOV AX,10
            MUL BX
            MOV BX, AX
            ADD BX,TEMP

        MOV AH,1
        INT 21H
        CMP AL,0DH
        JNE CONVERT_TO_NUM

        END_INPUTS:
            MOV INPUT,BX
            CMP INPUT,0
            JE END_PRO

    GET_RESULT:
        MOV BX,2H
        MOV AX,INPUT

        FOR_LOOP:
            DIV BX
            INC COUNT
            CMP AX,1H
            JG FOR_LOOP


    START_PRINT:
        LEA DX,MSGC
        MOV AH,9
```

```
            INT 21H

            JMP CASE_NUMBER
            BACK_TO_PRINT:
                LEA DX,MSGB
                MOV AH,9
                INT 21H

                MOV AX,COUNT
                MOV CX,0
                MOV BX,10

            STOR_RESULTS:           ;stor each digits in stack
                XOR DX,DX
                DIV BX
                PUSH DX
                INC CX
                CMP AX,0
                JNE STOR_RESULTS

            PRINT_RESULTS:          ;print each digits from stack
                MOV AH,2
                POP DX
                ADD DL,48
                INT 21H
                LOOP PRINT_RESULTS
                JMP NEW_INPUT

            CASE_NUMBER:
                MOV AX,CASE
                MOV CX,0
                MOV BX,10

                STOR_CASE_NUM:
                    XOR DX,DX
                    DIV BX
                    PUSH DX
                    INC CX
                    CMP AX,0
                    JNE STOR_CASE_NUM

                PRINT_CASE_NUM:
                    MOV AH,2
                    POP DX
                    ADD DL,48
                    INT 21H
                    LOOP PRINT_CASE_NUM

                INC CASE
                JMP BACK_TO_PRINT

        NEW_INPUT:
            LEA DX,MSGD
            MOV AH,9
            INT 21H
            INT 21H
            JMP RAND_IO

    END_PRO:
        MOV AH,4CH
        INT 21H

    MAIN ENDP
        END MAIN
```