```
.MODEL SMALL
.STACK 100H
.DATA
    MSGA DB 'Enter the Empty Bottols: $'
    MSGB DB 'Bottols taken for Empty: $'
    MSGC DB 13,10,'$'
    COUNT DB ?
    INPUT DW ?
    OUTPUT DW ?
    TEMP DW ?
    CASE DW ?

.CODE
MAIN PROC
    MOV AX,@DATA
    MOV DS,AX
    MOV CASE,10                 ;This for 10th test case

RAND_IO:
    CMP CASE,0
    JE END_PRO

    LEA DX,MSGA
    MOV AH,9
    INT 21H

    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
        DIV BX
        MOV OUTPUT,AX


    START_PRINT:
        LEA DX,MSGB
        MOV AH,9
        INT 21H

        MOV AX,OUTPUT
```

```
            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

        NEW_INPUT:
            LEA DX,MSGC
            MOV AH,9
            INT 21H
            INT 21H
            DEC CASE
            JMP RAND_IO

    END_PRO:
        MOV AH,4CH
        INT 21H

    MAIN ENDP
        END MAIN
```