

Given piece of the ASCII codes table (code[hexadecimal] character)

```

09 \t
20 21 ! 22 " 23 # 24 $ 25 % 26 & 27 '
28 ( 29 ) 2A * 2B + 2C , 2D - 2E . 2F /
30 0 31 1 32 2 33 3 34 4 35 5 36 6 37 7
38 8 39 9 3A : 3B ; 3C < 3D = 3E > 3F ?
40 @ 41 A 42 B 43 C 44 D 45 E 46 F 47 G
48 H 49 I 4A J 4B K 4C L 4D M 4E N 4F O
50 P 51 Q 52 R 53 S 54 T 55 U 56 V 57 W
58 X 59 Y 5A Z 5B [ 5C \ 5D ] 5E ^ 5F _
60 ` 61 a 62 b 63 c 64 d 65 e 66 f 67 g
68 h 69 i 6A j 6B k 6C l 6D m 6E n 6F o
70 p 71 q 72 r 73 s 74 t 75 u 76 v 77 w
78 x 79 y 7A z 7B { 7C | 7D } 7E ~

```

SET No 1

Write the results of the following program execution:

```

#include <stdio.h>
#define PR(a,f) printf (#a "=%"#f"\t", (int)(a) )
#define PRINT(a,f) PR(a,f); putchar ('\n')
#define PRINT2(a,b,f1,f2) PR(a,f1); PRINT(b,f2)
#define PRINT3(a,b,c,f1,f2,f3) \
    PR(a,f1); PRINT2(b,c,f2,f3)
#define MAX(a,b) (a<b ? b : a)
#define TAB(c,i,oi,t) if(c=='\t')\
    for (t=8-(i-oi-1)%8, oi=i; t--)\
        putchar('*')
void main (void)
{
    {
        int x=19, y=20;
        PRINT3 ( MAX(x++,y), x, y ,d,d,d);
        PRINT3 ( MAX(x++,y), x, y ,d,d,d);
    }
    {
        static char input[] = "\tlight\tweight";
        char c;
        int i, oldi, temp;

        for (oldi=-1, i=0; (c=input[i])!='\0'; i++)
            TAB (c,i,oldi,temp);
        else putchar(c);
        putchar('\n');
    }
}

```

ANSWER

```

(x++<y ? y : x++)= 20   x= 20 y= 20
(x++<y ? y : x++)= 21   x= 22 y= 20
*****light***weight

```

SET No 2

Write the results of the following program execution:

```

#include <stdio.h>
#define PR(a) printf (#a "=%d\t", (int)(a) )
#define PRINT(a) PR(a); putchar ('\n')
#define PRINT2(a,b) PR(a); PRINT(b)
#define PRINT3(a,b,c) PR(a); PRINT2(b,c)
#define MAX(a,b) (a<b ? b : a)
#define TAB(c,i,oi,t) if(c=='\t')\
    for (t=8-(i-oi-1)%8, oi=i; t--)\
        putchar('*')
void main (void)
{
    {
        int x=23, y=24;
        PRINT3 ( MAX(x++,y), x, y );
        PRINT3 ( MAX(x++,y), x, y );
    }
    {
        static char input[] = "\tblack\tnight";
        char c;
        int i, oldi, temp;

        for (oldi=-1, i=0; (c=input[i])!='\0'; i++)
            TAB (c,i,oldi,temp);
        else putchar(c);
        putchar('\n');
    }
}

```

ANSWER

```

(x++<y ? y : x++)= 24   x= 24 y= 24
(x++<y ? y : x++)= 25   x= 26 y= 24
*****black***night

```