

```
1: #include <stdio.h>
2:
3: void draw(int i);
4:
5: int main() {
6:
7:     for (int i=1; i<=4; i++)
8:         draw (i);
9:
10:    for (int i=3; i>=1; i--)
11:        draw (i);
12:
13:    return 0;
14: }
15:
16:
17: void draw(int i) {
18:
19:     for (int j=1; j<=4-i; j++)
20:         printf(" ");
21:
22:     if (i==1)
23:         printf("*");
24:     else {
25:         printf("*");
26:         for (int k=1; k<=(2*i-3); k++)
27:             printf(" ");
28:         printf("*");
29:     }
30:
31:     for (int p=1; p<=4-i; p++)
32:         printf(" ");
33:
34:     printf("\n");
35:
36:     return;
37: }
```

```
1: #include <stdio.h>
2:
3: int is_valid_date(int year, int month, int day);
4: int is_leap_year(int year);
5:
6: int main(void) {
7:
8:     int year, month, day;
9:
10:    printf("i\227°ë\217\204ë¥% i\236\205ë ¥í\225\230i\204,i\232\224: ");
11:    scanf("%d", &year);
12:
13:    printf("i\233\224i\235\204 i\236\205ë ¥í\225\230i\204,i\232\224: ");
14:    scanf("%d", &month);
15:
16:    printf("i\235%i\235\204 i\236\205ë ¥í\225\230i\204,i\232\224: ");
17:    scanf("%d", &day);
18:
19:    int temp;
20:
21:    temp = is_valid_date(year, month, day);
22:
23:    if (temp)
24:        printf("i\234 í\232"í\225\234
ë\202 is\234i\236\205ë\213\210ë\213¤.\n");
25:    else
26:        printf("i\234 í\232"í\225\230i$ \200 i\225\212i\235\200
ë\202 is\234i\236\205ë\213\210ë\213¤.\n");
27:
28:    return 0;
29: }
30:
31:
32: int is_valid_date(int year, int month, int day) {
33:
34:     int temp;
35:     int result=0;
36:
37:     temp = is_leap_year(year);
38:
39:     if (month==1 || month==3 || month==5 || month==7 || month==8 || month==10
|| month==12) {
40:
41:         if (day > 0 && day <= 31)
42:             result = 1;
43:
44:     } else if (month==4 || month==6 || month==9 || month==11) {
45:
46:         if (day > 0 && day <= 30)
47:             result = 1;
48:     } else if (month==2) {
49:
50:         if (temp) {
51:
52:             if (day > 0 && day <= 29)
53:                 result = 1;
54:         } else {
55:
56:             if (day > 0 && day <= 28)
57:                 result = 1;
58:
59:         }
60:     }
61:
62:    return result;
63: }
64:
```

```
65:
66: int is_leap_year(int year) {
67:
68:     int result;
69:
70:     if ((year%4==0 && year%100!=0) || (year%400==0))
71:         result = 1;
72:     else
73:         result = 0;
74:
75:    return result;
76: }
```

```
1: #include <stdio.h>
2:
3: int sum(unsigned int x);
4:
5: int main(void) {
6:
7:     unsigned int num;
8:     int temp, step=2;
9:
10:    printf("ì\236\205ë ¥ > ");
11:    scanf("%u", &num);
12:
13:    temp = sum(num);
14:
15:    while (1) {
16:        if ( temp >= 10 ) {
17:            temp = sum(temp);
18:            step++;
19:        } else {
20:            break;
21:        }
22:    }
23:
24:    printf("ì\234ë ¥ > %d %d\n", step, temp);
25:
26:    return 0;
27:
28: }
29:
30: int sum(unsigned int x) {
31:
32:     int hap=0;
33:     unsigned int temp;
34:
35:     temp = x;
36:
37:     while (1) {
38:
39:         hap = hap + (temp % 10);
40:
41:         if (temp/10 == 0)
42:             break;
43:
44:         temp = (temp / 10);
45:     }
46:
47:     return hap;
48: }
```

```
1: #include <stdio.h>
2:
3: int get_median(int x, int y, int z);
4:
5: int main(void) {
6:
7:     int n1, n2, n3;
8:     int median;
9:
10:    printf("i\204, ê°\234i\235\230 i \225i\210\230ë¥%
i\236\205ë ¥i\225\230i\204,i\232\224: ");
11:    scanf("%d %d %d", &n1, &n2, &n3);
12:
13:    median = get_median(n1, n2, n3);
14:
15:    printf("i¤\221i\225\231ê°\222i\235\200 %di\236\205ë\213\210ë\213¤. \n",
median);
16:
17:    return 0;
18: }
19:
20:
21: int get_median(int x, int y, int z) {
22:
23:     int median;
24:
25:     if ((x>y && x<z) || (x>z && x<y))
26:         median = x;
27:     else if ((x<y && y<z) || (z<y && y<x))
28:         median = y;
29:     else if ((z>x && z<y) || (z>y && z<x))
30:         median = z;
31:
32:    return median;
33: }
```

```
1: #include <stdio.h>
2:
3: int main(void) {
4:
5:     int year;
6:
7:     printf("i\227°ë\217\204ë¥% i\236\205ë ¥í\225\230i\204,i\232\224: ");
8:     scanf("%d", &year);
9:
10:    if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0))
11:        printf("%dë\205\204i\235\200
i\234¤ë\205\204i\236\205ë\213\210ë\213¤.\n", year);
12:    else
13:        printf("%dë\205\204i\235\200 i\234¤ë\205\204i\235´
i\225\204ë\213\231ë\213\210ë\213¤.\n", year);
14:
15:    return 0;
16: }
```

```
1: #include <stdio.h>
2:
3: int abs_compare(int a, int b);
4:
5: int main(void) {
6:
7:     int n1, n2;
8:     int temp;
9:
10:    printf("ë\221\220 ì \225ì\210\230ë¥%
ì\236\205ë ¥ì\225\230ì\204,ì\232\224: ");
11:    scanf("%d %d", &n1, &n2);
12:
13:    temp = abs_compare(n1, n2);
14:
15:    printf("ì \210ë\214\223ë°\222ì\235´ ë\215\224 í\201° ì\210\230ë\212\224
%di\236\205ë\213\210ë\213¤.\n", temp);
16:
17:    return 0;
18: }
19:
20:
21: int abs_compare(int a, int b) {
22:
23:     int n1, n2;
24:     int temp;
25:
26:     n1 = a, n2 = b;
27:
28:     if (a < 0)
29:         n1 = -n1;
30:     if (b < 0)
31:         n2 = -n2;
32:
33:     if (n1 >= n2)
34:         temp = a;
35:     else
36:         temp = b;
37:
38:    return temp;
39: }
```

```
1: #include <stdio.h>
2:
3: int main(void) {
4:
5:     int score;
6:
7:     printf("i \220i\210\230ë¥% i\236\205ë ¥í\225'í¥%i\204,i\232\224: ");
8:     scanf("%d", &score);
9:
10:    if (score > 100 || score < 0)
11:        printf("0~100 i\202~i\235'í\235\230 i \220i\210\230ë¥%
i\236\205ë ¥í\225\230i\204,i\232\224.\n");
12:    else if (score >= 90 && score <= 100)
13:        printf("ë\223±ë,\211: A\n");
14:    else if (score >= 80 && score < 90)
15:        printf("ë\223±ë,\211: B\n");
16:    else if (score >= 70 && score < 80)
17:        printf("ë\223±ë,\211: C\n");
18:    else if (score >= 60 && score < 70)
19:        printf("ë\223±ë,\211: D\n");
20:    else
21:        printf("ë\223±ë,\211: F\n");
22:
23:    return 0;
24: }
```

```
1: #include <stdio.h>
2:
3: int main (void) {
4:
5:     int n1, n2, n3;
6:     int min, temp;
7:
8:     printf("ì\204, ê°\234ì\235\230 ì \225ì\210\230ë¥%
ì\236\205ë ¥í\225\230ì\204,ì\232\224: ");
9:     scanf("%d %d %d", &n1, &n2, &n3);
10:
11:     min = n1;
12:
13:     if (n2 < min)
14:         min = n2;
15:     if (n3 < min)
16:         min = n3;
17:
18:     if (min % 2 == 0)
19:         printf("ê°\200ì\236¥ ì\236\221ì\235\200 ì\210\230ë\212\224
%di\235'ê³ , ì§\235ì\210\230ì\236\205ë\213\210ë\213¥.\n", min);
20:     else
21:         printf("ê°\200ì\236¥ ì\236\221ì\235\200 ì\210\230ë\212\224
%di\235'ê³ , í\231\200ì\210\230ì\236\205ë\213\210ë\213¥.\n", min);
22:
23: return 0;
24: }
```



```
1: #include <stdio.h>
2:
3: int reverse_number(int num);
4:
5: void is_palindrome(int num, int rev_num);
6:
7: int main(void) {
8:
9:     int num, rev_num;
10:
11:     printf("i\204, i\236\220ë!¬ i \225i\210\230ë¥%
i\236\205ë ¥í\225\230i\204,i\232\224: ");
12:     scanf("%d", &num);
13:
14:     if (num >= 100 && num < 1000) {
15:         rev_num = reverse_number(num);
16:
17:         printf("ë\222¤i§\221i\235\200 i\210\230ë\212\224
%di\236\205ë\213\210ë\213¤.\n", rev_num);
18:
19:         is_palindrome(num, rev_num);
20:     } else
21:         printf("i\204, i\236\220ë!¬ i \225i\210\230ë°\200
i\225\204ë\213\231ë\213\210ë\213¤.\n");
22:
23: return 0;
24: }
25:
26:
27: int reverse_number(int num) {
28:
29:     int n1, n2, n3;
30:     int temp;
31:
32:     temp = num;
33:
34:     n3 = temp % 10;
35:     temp = temp / 10;
36:
37:     n2 = temp % 10;
38:     temp = temp / 10;
39:
40:     n1 = temp;
41:
42:
43:     int rev_num;
44:
45:     rev_num = n3*100 + n2*10 + n1;
46:
47: return rev_num;
48: }
49:
50:
51: void is_palindrome(int num, int rev_num) {
52:
53:     if (num == rev_num)
54:         printf("i\232\214ë¬,i\236\205ë\213\210ë\213¤.\n");
55:     else
56:         printf("i\232\214ë¬,i\235´ i\225\204ë\213\231ë\213\210ë\213¤.\n");
57:
58: return;
59: }
```

```
1: #include <stdio.h>
2:
3: int is_triangle(int a, int b, int c);
4: void triangle_type(int a, int b, int c);
5:
6: int main(void) {
7:
8:     int a, b, c;
9:     int temp;
10:
11:     printf("i\204, ë³\200i\235\230 ë.,i\235'ë¥%
i\236\205ë ¥í\225\230i\204,i\232\224: ");
12:     scanf("%d %d %d", &a, &b, &c);
13:
14:     temp = is_triangle(a, b, c);
15:
16:     if (temp) {
17:         printf("i\202%ë°\201í\230\225 ë°\200ë\212¥: ");
18:         triangle_type(a, b, c);
19:     } else
20:         printf("i\202%ë°\201í\230\225i\235\204 ë§\214ë\223¤ i\210\230
i\227\206i\212¤ë\213\210ë\213¤.\n");
21:
22:     return 0;
23: }
24:
25:
26: int is_triangle(int a, int b, int c) {
27:
28:     int result;
29:
30:     if ((a+b>c) && (a+c>b) && (b+c>a))
31:         result = 1;
32:     else
33:         result = 0;
34:
35:     return result;
36: }
37:
38:
39: void triangle_type(int a, int b, int c) {
40:
41:     if (a==b && b==c)
42:         printf("i \225i\202%ë°\201í\230\225\n");
43:     else if (a==b || b==c || a==c)
44:         printf("i\235'ë\223±ë³\200i\202%ë°\201í\230\225\n");
45:     else
46:         printf("i\235%ë°\230 i\202%ë°\201í\230\225\n");
47:
48:     return;
49: }
```