

```
p1.cpp
#include <stdio.h>

main()
{
    printf("白神 直弘¥n");
}
```

```
p2.cpp
#include <stdio.h>

main()
{
    int n;

    printf("整数 n:");
    scanf("%d", &n);

    printf("n = %d, n^2 = %d, n^3 = %d¥n", n, n * n, n * n * n);
}
```

```
p3.cpp
#include <stdio.h>

main()
{
    int n;

    printf("整数 n:");
    scanf("%d", &n);

    printf("n(10) = %d, n(8) = %o, n(16) = %x¥n", n, n, n);
}
```

```
p4.cpp
#include <stdio.h>

main()
{
    int a, b;

    printf("整数 a:");
    scanf("%d", &a);
    printf("整数 b:");
    scanf("%d", &b);

    printf("%d + %d = %d¥n", a, b, a + b);
    printf("%d - %d = %d¥n", a, b, a - b);
    printf("%d * %d = %d¥n", a, b, a * b);
    printf("%d / %d = %d¥n", a, b, a / b);
    printf("%d %% %d = %d¥n", a, b, a % b);
}
```

```
p5.cpp
#include <stdio.h>

main()
{
    int n;

    printf("個数:");
    scanf("%d", &n);

    printf("支払金額は %d 円¥n", 160 * n);
}
```

```
p6.cpp
#include <stdio.h>
#include <stdlib.h>

main(int argc, char *argv[])
{
    int m, n;

    m = atoi(argv[1]);
    n = atoi(argv[2]);

    printf("余りは %d¥n", m % n);
}
```

```
p7.cpp
#include <stdio.h>

main()
{
    double c, f;

    printf("セ氏温度:");
    scanf("%lf", &c);

    f = 9.0 * c / 5.0 + 32.0;
    printf("カ氏温度:%f¥n", f);
}
```

```
p8.cpp
#include <stdio.h>

main()
{
    double c, f;

    printf("力氏温度: ");
    scanf("%lf", &f);

    c = 5.0 * (f - 32.0) / 9.0;
    printf("セ氏温度: %f¥n", c);
}
```

```
p9.cpp
#include <stdio.h>
#define TAX 0.05
main()
{
    int price;

    printf("税抜き価格: ");
    scanf("%d", &price);

    printf("消費税込価格: %d¥n", (int)(price * (1 + TAX)));
}
```

```
p10.cpp
#include <stdio.h>
#include <stdlib.h>
#define PAI 3.14159

main(int argc, char *argv[])
{
    double r, v;

    r = atof(argv[1]);
    v = 4.0 * PAI * r * r * r / 3.0;
    printf("体積は %f¥n", v);
}
```

```
p11.cpp
#include <stdio.h>

main()
{
    int score;

    printf("点数:");
    scanf("%d", &score);

    if(score >= 60)
        printf("合格¥n");
    else
        printf("不合格¥n");
}
```

```
p12.cpp
#include <stdio.h>

main()
{
    int n, price;

    printf("枚数:");
    scanf("%d", &n);

    if(n > 10)
        price = 20 * 10 + 15 * (n - 10);
    else
        price = 20 * n;
    printf("支払金額:%d円¥n", price);
}
```

```
p13.cpp
#include <stdio.h>

main()
{
    int age, price;

    printf("年齢:");
    scanf("%d", &age);

    if(age <= 6)
        price = 0;
    else if(age <= 12)
        price = 300;
    else
        price = 500;
    printf("支払金額:%d円¥n", price);
}
```

```
p14.cpp
#include <stdio.h>
#include <stdlib.h>

main(int argc, char *argv[])
{
    int n;

    n = atoi(argv[1]);

    if(n % 2 == 0)
        printf("偶数¥n");
    else
        printf("奇数¥n");
}
```

```
p15.cpp
#include <stdio.h>

main()
{
    int year;

    printf("西暦年: ");
    scanf("%d", &year);

    if(year % 4 == 0 && year % 100 != 0 || year % 400 == 0)
        printf("うるう年です¥n");
    else
        printf("うるう年ではありません¥n");
}
```

```
p16.cpp
#include <stdio.h>

main()
{
    char c;

    printf("E, F, G, J ? : ");
    scanf("%c", &c);

    switch(c) {
        case 'E':
            printf("English¥n");
            break;
        case 'F':
            printf("French¥n");
            break;
        case 'G':
            printf("Germany¥n");
            break;
        case 'J':
            printf("Japanese¥n");
        default :
            printf("Others¥n");
    }
}
```

```
p17.cpp
#include <stdio.h>

main()
{
    char str[80];
    int i;

    printf("文字列 : ");
    scanf("%s", str);

    for(i = 0; i < 10; i++)
        printf("%s¥n", str);
}
```

```
p18.cpp
#include <stdio.h>

main()
{
    int i;

    for(i = 32; i <= 126; i++)
        printf("%c ", i);
}
```

```
p19.cpp
#include <stdio.h>
#include <stdlib.h>

main(int argc, char *argv[])
{
    int i, n, sum = 0;

    n = atoi(argv[1]);
    for(i = 1; i <= n; i++)
        sum += i;
    printf("%d¥n", sum);
}
```

```
p20.cpp
#include <stdio.h>
#include <stdlib.h>

main(int argc, char *argv[])
{
    int i, n, fact = 1;

    n = atoi(argv[1]);
    for(i = 1; i <= n; i++)
        fact *= i;
    printf("%d¥n", fact);
}
```

```

p21.cpp
#include <stdio.h>

main()
{
    int n, sum = 0;

    n = 0;
    while(sum < 1000) {
        n++;
        sum += n;
    }
    printf("sum = %d n = %d\n", sum, n);
}

```

```

p22.cpp
#include <stdio.h>

main()
{
    int i, j;

    printf(" | ");
    for(j = 1; j < 10; j++)
        printf("%3d", j);
    printf("\n-----\n");
    for(i = 1; i < 10; i++) {
        printf("%3d | ", i);
        for(j = 1; j < 10; j++)
            printf("%3d", i * j);
        printf("\n");
    }
    printf("-----\n");
}

```

```

p23.cpp
#include<stdio.h>

main()
{
    int i, j, n;

    printf("n: ");
    scanf("%d", &n);

    for(i = 1; i <= n; i++) {
        for(j = 1; j <= i; j++)
            printf("*");
        printf("\n");
    }
}

```

```

p24.cpp
#include<stdio.h>

main()
{
    int i, j, n;

    printf("n: ");
    scanf("%d", &n);

    for(i = 1; i <= n; i++) {
        for(j = 1; j <= n - i; j++)
            printf(" ");
        for(j = n - i + 1; j <= n; j++)
            printf("*");
        printf("\n");
    }
}

```

```

p25.cpp
#include <stdio.h>

main()
{
    int data[] = { 12, 36, 77, 85, 96, 17, 52, 83, 27, 99 };
    int i, max;

    max = data[0];
    for(i = 1; i < 10; i++)
        if(data[i] > max)
            max = data[i];
    printf("最大值: %d\n", max);
}

```

```

p26.cpp
#include <stdio.h>

main()
{
    int data[] = { 12, 36, 77, 85, 96, 17, 52, 83, 27, 99 };
    int i, min;

    min = data[0];
    for(i = 1; i < 10; i++)
        if(data[i] < min)
            min = data[i];
    printf("最小值: %d\n", min);
}

```

```
p27.cpp
#include <stdio.h>

int max(int []);
int min(int []);

main()
{
    int data[] = { 12, 36, 77, 85, 96, 17, 52, 83, 27, 99 };

    printf("最大值：%d\n", max(data));
    printf("最小值：%d\n", min(data));

}

int max(int data[])
{
    int i, max;
    max = data[0];

    for(i = 1; i < 10; i++)
        if(data[i] > max)
            max = data[i];

    return max;
}

int min(int data[])
{
    int i, min;
    min = data[0];

    for(i = 1; i < 10; i++)
        if(data[i] < min)
            min = data[i];

    return min;
}
```

```

p28.cpp
#include <stdio.h>

double pow(double, int);

main()
{
    printf("2 ^ 4 = %f¥n", pow(2.0, 4));
    printf("3.5 ^ 3 = %f¥n", pow(3.5, 3));
}

double pow(double x, int n)
{
    int i;
    double value = 1.0;

    for(i = 1; i <= n; i++)
        value = value * x;

    return value;
}

```

```

p29.cpp
#include <stdio.h>

double series(int);

main()
{
    printf("值 %f (n = %4d)¥n", series(10), 10);
    printf("值 %f (n = %4d)¥n", series(100), 100);
    printf("值 %f (n = %4d)¥n", series(1000), 1000);
}

double series(int n)
{
    int i;
    double sum = 0.0;

    for(i = 1; i <= n; i++)
        sum += 1.0 / i;

    return sum;
}

```

```
p30.cpp
#include <stdio.h>

double average(int []);

main()
{
    int data[] = { 12, 36, 77, 85, 96, 17, 52, 83, 27, 99 };

    printf("平均值:%f\n", average(data));
}

double average(int data[])
{
    int i, sum = 0;

    for(i = 0; i < 10; i++)
        sum += data[i];

    return sum / 10.0;
}
```