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|  | #include<stdio.h>  #include<math.h>  int main(void) |
|  | { |
|  | int year; |
|  | printf("请输入年份:"); |
|  | /\* 循环获取用户输入 \*/ |
|  | scanf("%d", &year); |
|  | /\*闰年： 能被400整除　或者　能被4整除但不能被100整除\*/ |
|  | if ((year % 400 == 0 )|| (year % 4 == 0 && year % 100 != 0)) |
|  | { |
|  | printf("%d年为闰年！\n", year); |
|  | } |
|  | else |
|  | { |
|  | printf("%d年为非闰年！\n", year); |
|  | } |
|  | return 0; |
|  | } |
|  | -------------------------------------------------------------------------------------------- |
|  | #include <stdio.h> |
|  | int main() |
|  | { int num; |
|  | int a, b, c, d, e, n; /\*分别代表各位、十位、百位、千位、万位和位数\*/ |
|  | printf("请输入一个整数(0-99999):"); |
|  | scanf("%d", &num); |
|  | if (num > 9999) n = 5; |
|  | else if (num > 999) n = 4; |
|  | else if (num > 99) n = 3; |
|  | else if (num > 9) n = 2; |
|  | else n = 1; |
|  | printf("这是一个 %d 位的整数\n", n); |
|  | printf("每位数字为:"); |
|  | e = num / 10000; |
|  | d = (num - e \* 10000) / 1000; |
|  | c = (num - e \* 10000 - d \* 1000) / 100; |
|  | b = (num - e \* 10000 - d \* 1000 - c \* 100) / 10; |
|  | a = num - e \* 10000 - d \* 1000 - c \* 100 - b \* 10; |
|  | switch (n) |
|  | {case 5: |
|  | printf("%d,%d,%d,%d,%d\n", e, d, c, b, a); |
|  | printf("反序数字为:"); |
|  | printf("%d%d%d%dl%d\n", a, b, c, d, e); |
|  | break; |
|  | case 4: |
|  | printf("%d,%d,%d,%d\n", d, c, b, a); |
|  | printf("反序数字为:"); |
|  | printf("%d%d%d%d\n", a, b, c, d); |
|  | break; |
|  | case 3: |
|  | printf("%d,%d,%d\n", c, b, a); |
|  | printf("反序数字为:"); |
|  | printf("%d%d%d\n", a, b, c); |
|  | break; |
|  | case 2: |
|  | printf("%d,%d\n", b, a); |
|  | printf("反序数字为:"); |
|  | printf("%d%d\n", a, b); |
|  | break; |
|  | case 1: |
|  | printf("%d\n", a); |
|  | printf("反序数字为:"); |
|  | printf("%d\n", a); |
|  | } |
|  | return 0; |
|  | } |
|  | -------------------------------------------------------------------------------------------- |
|  | #include<stdio.h> |
|  | int main() |
|  | {int p, r, m, n, temp; |
|  | printf("请输入两个正整数n,m:"); |
|  | scanf("%d,%d", &n, &m); |
|  | if (n < m) |
|  | {temp = n; |
|  | n = m; |
|  | m = temp;} |
|  | p = n \* m; |
|  | while (m != 0) |
|  | {r = n % m; |
|  | n = m; |
|  | m = r; } |
|  | printf("他们的最大公约数为:%d\n", n); |
|  | printf("他们的最小公倍数为：%d\n", p / n); |
|  | return 0;} |
|  | -------------------------------------------------------------------------------------------- |
|  | #include<stdio.h> |
|  | int main() |
|  | { char c; |
|  | int letters=0,spaces=0,digits=0,others=0; |
|  | printf("请输入一串任意的字符：\n"); |
|  | while((c=getchar())!='\n') |
|  | { if((c>='a'&&c<='z')||(c>='A'&&c<='Z')) letters++; |
|  | else if(c>='0'&&c<='9') digits++; |
|  | else if(c==' ') spaces++; |
|  | else others++; } |
|  | printf("字母有%d个，数字有%d个，空格有%d个，其他有%d个",letters,digits,spaces,others); |
|  | return 0; |
|  | } |
|  | -------------------------------------------------------------------------------------------- |
|  | #include<stdio.h> |
|  | int main() |
|  | { int i, a = 0, b = 0, c = 0; |
|  | printf("The Narcissus is:\n"); |
|  | for(i = 100; i <= 999; i++) |
|  | { a = i % 10; |
|  | b = (i / 10) % 10; |
|  | c = i / 100; |
|  | if(i == a \* a \* a + b \* b \* b + c \* c \* c) |
|  | printf("%d\n", i); |
|  | } |
|  | return 0; |
|  | } |
|  | -------------------------------------------------------------------------------------------- |
|  | #include<stdio.h> |
|  | #include<math.h> |
|  | int main() |
|  | { |
|  | int n, i,k; |
|  | printf("please enter a integer number,n=?"); |
|  | scanf("%d", &n); |
|  | k = sqrt(n); |
|  | for (i = 2; i <= k; i++) |
|  | if (n%i == 0)break; |
|  | if (i <= k)printf("%d is not a prime number.\n", n); |
|  | else printf("%d is a prime number.\n", n); |
|  | return 0; |
|  | } |
|  | -------------------------------------------------------------------------------------------- |
|  | #include <stdio.h> |
|  | int main() { |
|  | int day, x1 , x2; |
|  | day = 9; |
|  | x2 = 1; |
|  | while (day > 0) |
|  | { |
|  | x1 = (x2 + 1) \* 2; // 第一天的桃子数是第2天桃子数加1后的2倍 |
|  | x2 = x1; |
|  | day--; |
|  | } |
|  | printf("总数为 %d\n", x1); |
|  | return 0; |
|  | } |
|  |  |
|  | #include<stdio.h> |
|  | int main() |
|  | { |
|  | char c; |
|  | c = getchar(); |
|  | while (c != '\n') |
|  | { |
|  | if ((c >= 'a'&&c <= 'z') || (c >= 'A'&&c <= 'Z')) |
|  | { |
|  | if (c >= 'V'&&c <= 'Z' || c >= 'v'&&c <= 'z') c = c - 21; |
|  | else c = c + 5; |
|  | } |
|  | printf("%c", c); |
|  | c = getchar(); |
|  | } |
|  | printf("\n"); |
|  | return 0; |
|  | } |
|  | -------------------------------------------------------------------------------------------- |
|  | #include<stdio.h> |
|  | int main() |
|  | { |
|  | int w[10], i, j, n; |
|  | printf("输入10个数："); |
|  | for (i = 1; i <= 10; i++) |
|  | scanf("%d", &w[i]); |
|  | for (i = 1; i <= 10; i++) |
|  | for (j = i; j <= 10; j++)//从第一个开始进行比较 |
|  | { |
|  | if (w[i] > w[j])//选择最小的数 |
|  | { |
|  | n = w[i]; |
|  | w[i] = w[j]; |
|  | w[j] = n; |
|  | } |
|  | } |
|  | printf("该十个数升序为： "); |
|  | for (i = 1; i <= 10; i++) |
|  | printf("%2d", w[i]); |
|  | } |
|  | -------------------------------------------------------------------------------------------- |
|  | #include <stdio.h> |
|  | int main() |
|  | { |
|  | int n[8] = { 12, 33, 55, 67, 78, 89, 94 }; //定义一个数组 |
|  | int i, j, num; |
|  | printf("Please enter number: "); //输入一个数 |
|  | scanf("%d", &num); |
|  | for (i = 0; i < 8; i++) { |
|  | if (num < n[i]) { //判断数字与数组内数字对比，然后重新排序号 |
|  | for (j = 7; j > i; n[j--] = n[j - 1]); |
|  | n[j] = num; |
|  | break; |
|  | } |
|  | else if (num >= n[6]) n[7] = num; //判断数字处于末尾时的特殊情况 |
|  | } |
|  | for (i = 0; i < 8; printf("%d ", n[i++])); //输出排序后的数组 |
|  | printf("\n"); |
|  | return 0; |
|  | } |
|  | -------------------------------------------------------------------------------------------- |
|  | #include<stdio.h> |
|  | #define M 4 |
|  | #define N 5 //定义行和列的大小 |
|  | int main() |
|  | { int a[M][N]; |
|  | int i, j; |
|  | int temp = 1, temp1[M], temp2[N]; |
|  | printf("请根据提示输入二维数组。\n"); |
|  | //输入数组 |
|  | for (i = 0; i < M; i++) |
|  | for (j = 0; j < N; j++) |
|  | { printf("a[%d][%d]=", i, j); |
|  | scanf\_s("%d", &a[i][j]); } |
|  | //输出数组 |
|  | for (i = 0; i < M; i++) |
|  | { for (j = 0; j < N; j++) |
|  | printf("%d\t", a[i][j]); |
|  | printf("\n"); } |
|  | //处理数组 |
|  | for (i = 0; i < M; i++) |
|  | { temp1[i] = a[i][0]; //给每行的最大值赋一个初始值 |
|  | temp2[i] = a[0][i]; //给每列的最小值赋一个初始值 |
|  | for (j = 0; j < N; j++) |
|  | { |
|  | if (temp1[i] < a[i][j]) temp1[i] = a[i][j]; |
|  | if (temp2[i] > a[j][i]) temp2[i] = a[j][i]; } |
|  | } |
|  | for (i = 0; i < M; i++) |
|  | { for (j = 0; j < N; j++) |
|  | { |
|  | if (a[i][j] == temp1[i] && a[i][j] == temp2[j]) |
|  | printf("这个二维数组的鞍点为%d\n", a[i][j]); |
|  | else |
|  | temp = 0; } |
|  | } |
|  | if (temp == 0) |
|  | printf("这个数组中没有鞍点.\n"); } |
|  | -------------------------------------------------------------------------------------------- |
|  | #include <stdio.h> |
|  | int main() |
|  | { |
|  | int i, j, upp, low, dig, spa, oth; |
|  | char text[3][80]; |
|  | upp = low = dig = spa = oth = 0; |
|  | for (i = 0; i < 3; i++) |
|  | { |
|  | printf("please input line %d:\n", i + 1); |
|  | gets\_s(text[i]); |
|  | for (j = 0; j < 80 && text[i][j] != '\0'; j++) |
|  | { |
|  | if (text[i][j] >= 'A'&& text[i][j] <= 'Z') |
|  | upp++; |
|  | else if (text[i][j] >= 'a' && text[i][j] <= 'z') |
|  | low++; |
|  | else if (text[i][j] >= '0' && text[i][j] <= '9') |
|  | dig++; |
|  | else if (text[i][j] == ' ') |
|  | spa++; |
|  | else |
|  | oth++; |
|  | } |
|  | } |
|  | printf("\nupper case: %d\n", upp); |
|  | printf("lower case: %d\n", low); |
|  | printf("digit : %d\n", dig); |
|  | printf("space : %d\n", spa); |
|  | printf("other : %d\n", oth); |
|  | return 0; |
|  | } |
|  | -------------------------------------------------------------------------------------------- |
|  | #include <stdio.h> |
|  | #include <math.h> |
|  | int main() |
|  | { |
|  | int judge(int x); |
|  | int x; |
|  | printf("Please enter number:"); |
|  | scanf("%d", &x); |
|  | if (judge(x)) |
|  | printf("%d is prime number!\n", x); |
|  | else |
|  | printf("%d is not prime number!\n", x); |
|  | return 0; |
|  | } |
|  | int judge(int n) |
|  | { |
|  | int i, k = sqrt(n); |
|  | if (n == 1) |
|  | return 0; |
|  | for (i = 2; i <= k; i++) |
|  | if (n%i == 0) return 0; |
|  | return 1; |
|  | } |
|  | -------------------------------------------------------------------------------------------- |
|  | #include<stdio.h> |
|  | int gcd(int a, int b) |
|  | {int i = 0, g = 0; |
|  | int m = 0; |
|  | m = a < b ? a : b; |
|  | for (i = 1; i <= m; i++) |
|  | {if (a%i == 0 && b%i == 0) |
|  | {g = i;} |
|  | } |
|  | return g; |
|  | } |
|  | int lcm(int a, int b) |
|  | { |
|  | return (a\*b) / gcd(a, b); |
|  | } |
|  | int main() |
|  | {int a = 0, b = 0; |
|  | int c = 0, d = 0; |
|  | printf("Input number a, b:"); |
|  | scanf("(%d,%d)", &a, &b); |
|  | c = gcd(a, b); |
|  | d = lcm(a, b); |
|  | printf("Output gcd = %d, lcm = %d", c, d); |
|  | return 0; |
|  | } |
|  | -------------------------------------------------------------------------------------------- |
|  | #include <stdio.h> |
|  | int main() { |
|  | void sort(int a[], int n); |
|  | int a[10], i; |
|  | printf("输入数组:\n"); |
|  | for (i = 0; i < 10; i++) |
|  | scanf("%d", &a[i]); |
|  | sort(a, 10); |
|  | printf("排序为:\n"); |
|  | for (i = 0; i < 10; i++) |
|  | printf("%d ", a[i]); |
|  | printf("\n"); |
|  | return 0; |
|  | } |
|  | void sort(int a[], int n) { |
|  | int i, j, k, t; |
|  | for (i = 0; i < n - 1; i++) { |
|  | k = i; |
|  | for (j = i + 1; j < n; j++) |
|  | if (a[j] < a[k]) |
|  | k = j; |
|  | t = a[k]; a[k] = a[i]; a[i] = t; |
|  | } |
|  | } |
|  | -------------------------------------------------------------------------------------------- |
|  | #include <stdio.h> |
|  | #define M 3 |
|  | #define N 3 |
|  | void convert(int a[M][N]) |
|  | { |
|  | int i, j, b[N][M]; |
|  | for (i = 0; i < M; i++) |
|  | for (j = 0; j < N; j++) |
|  | b[j][i] = a[i][j]; |
|  | printf("after converted:\n"); |
|  | for (i = 0; i < N; i++) |
|  | { |
|  | for (j = 0; j < M; j++) |
|  | printf("%d ", b[i][j]); |
|  | printf("\n"); |
|  | } |
|  | } |
|  | int main() |
|  | { |
|  | int i, j, a[M][N]; |
|  | printf("input 3\*3 matrix:\n"); |
|  | for (i = 0; i < 3; i++) |
|  | for (j = 0; j < 3; j++) |
|  | scanf("%d", &a[i][j]); |
|  | convert(a); |
|  | return 0; |
|  | } |
|  | -------------------------------------------------------------------------------------------- |
|  | #include<stdio.h> |
|  | struct Date |
|  | {int year; |
|  | int month; |
|  | int day; |
|  | }; |
|  | int days(int year, int month, int day); |
|  | int main() |
|  | {struct Date p; |
|  | scanf("%d,%d,%d", &p.year, &p.month, &p.day); |
|  | days(p.year, p.month, p.day); |
|  | } |
|  | int days(int year, int month, int day) |
|  | {int a[12] = { 31,28,31,30,31,30,31,31,30,31,30,31 }; |
|  | int sum, i; |
|  | sum = day; |
|  | for (i = 0; i < month - 1; i++) |
|  | sum += a[i]; |
|  | if (((year % 4 == 0 && year % 100 != 0) || year % 400 == 0) && month > 2) |
|  | printf("该日是在%d年中的第%d天", year, sum + 1); |
|  | else |
|  | printf("该日是在%d年中的第%d天", year, sum); |
|  | return 0;} |
|  | -------------------------------------------------------------------------------------------- |
|  | #include <stdio.h> |
|  | #include <string.h> |
|  | void reverse(char a[]); |
|  | int main() |
|  | { |
|  | char str[20]; |
|  | gets\_s(str); |
|  | reverse(str); |
|  | puts(str); |
|  | return 0; |
|  | } |
|  | void reverse(char a[]) |
|  | { |
|  | int i, j, k; |
|  | char t; |
|  | k = strlen(a); |
|  | for (i = 0, j = k - 1; i < k / 2; i++, j--) { |
|  | t = a[i]; |
|  | a[i] = a[j]; |
|  | a[j] = t; |
|  | } |
|  | } |
|  | -------------------------------------------------------------------------------------------- |
|  | #include<stdio.h> |
|  | int main() |
|  | { |
|  | struct Student { int num; char name[20]; float score; }a, b; |
|  | scanf("%d%s%f", &a.num, a.name, &a.score); |
|  | scanf("%d%s%f", &b.num, b.name, &b.score); |
|  | printf("The higher score is:\n"); |
|  | if (a.score > b.score) |
|  | printf("%d %s %f\n", a.num, a.name, a.score); |
|  | else if (a.score < b.score) |
|  | printf("%d %s %f\n", b.num, b.name, b.score); |
|  | else |
|  | { |
|  | printf("%d %s %f\n", a.num, a.name, a.score); |
|  | printf("%d %s %f\n", b.num, b.name, b.score); |
|  | } |
|  | return 0; |
|  | } |