```
1
    /*Bai 1:
 2
    Chuong trinh nhap 3 so a, b, c tu ban phim
 3
    ->Tim so lon nhat trong 3 so
    * /
4
5
    #include <stdio.h>
 6
7
    #include <conio.h>
8
9
    int main ()
10
11
       int a, b, c;
12
       clrscr();
13
       printf("\nNhap vao 3 so a, b, c:");
14
       scanf("%d%d%d",&a, &b, &c);
15
       if(a > b \&\& a > c)
16
                          //Neu a la so lon nhat
17
          printf("\nSo lon nhat la: %d", a);
18
19
       else
                            //b hoac c la so lon nhat
20
          if (b > c)
21
             printf("\nSo lon nhat la: %d", b);
22
          else
23
             printf("\nSo lon nhat la: %d", c);
24
       getch();
       return 0;
25
26
     /********************************
27
     ************************************
28
29
    /*Bai 2:
30
    Chuong trinh nhap vao 3 canh cua 1 tam giac.
31
    -> Kiem tra 3 canh vua nhap co tao thanh tam giac hay khong ?
32
       - Neu khong ! In ra cau thong bao: khong the tao tam giac !
33
       - Nguoc lai:
34
       --> Tinh chu vi
35
       --> Tinh dien tich
    Chu y: 3 canh hop thanh 1 tam giac khi va chi khi tong cua 2 canh bat ky lon hon canh
36
    thu 3.
37
    * /
38
39
    #include <stdio.h>
40
    #include <conio.h>
41
    #include <math.h> //Ham sqrt() nam trong thu vien math.h
42
43
    int main ()
44
45
       float a, b, c, cv, p, s;
46
47
       clrscr();
48
       printf("\nNhap vao 3 canh a, b, c:");
       scanf("%f%f%f", &a, &b, &c);
49
50
51
       if((a + b > c) \&\& (a + c > b) \&\& (c + b > a)) //Thoa dieu kien la tam giac
52
53
          cv = a + b + c; //Tinh chu vi
54
          p = cv / 2;
55
          s = sqrt (p * (p-a) * (p -b) * (p - c)); //Tinh dien tich
```

```
56
           printf("\nChu vi cua tam giac la: %.2f",cv);
 57
           printf("\nDien tich cua tam gia la: %.2f",s);
 58
        }
        else
 59
 60
          printf("\nKhong the tao thanh tam giac !");
 61
 62
        getch();
        return 0;
 63
 64
 65
     ********************************
 66
 67
     /*Bai 3:
 68
     Chuong trinh giai phuong trinh bac nhat ax + b = 0
 69
     Voi a, b nhap tu ban phim
 70
     * /
 71
 72
     #include <stdio.h>
 73
     #include <conio.h>
 74
 75
     int main()
 76
 77
        int a, b;
 78
 79
        clrscr();
 80
        printf("\nNhap vao 2 so a, b:");
        scanf("%d%d", &a, &b);
 81
 82
 83
        if( a == 0)
 84
           if( b == 0) //Neu a = 0 va b = 0
 85
             printf("\nPhuong trinh vo dinh !");
 86
                      //Neu \ a = 0 \ va \ b != 0
 87
             printf("\nPhuong trinh vo nghiem !");
 88
 89
        }
 90
        else
                      //Neu a != 0
           printf("\nPhuong trinh co nghiem la: %d/%d",-b,2*a);
 91
 92
        getch();
 93
 94
        return 0;
 95
     /*****************************
 96
     ************************************
 97
 98
 99
     Chuong trinh giai phuong trinh bac hai ax2 + bx + c = 0
     Voi a, b, c nhap tu ban phim
100
101
     * /
102
     #include <stdio.h>
103
     #include <conio.h>
104
     #include <math.h>
105
106
107
     int main()
108
109
        int a, b, c, Delta;
110
111
        clrscr();
```

```
112
         printf("\nNhap a, b, c :");
113
         scanf("%d%d%d", &a, &b, &c);
114
         Delta = b * b - 4 * a * c;
115
116
         if(Delta >= 0)
117
            if(Delta == 0) //Delta = 0 phuong trinh co nghiem kep
118
               printf("\nPhuong trinh co nghiem kep: x1 = x2 = %d/%d", -b, 2*a);
119
                           //Delta > 0 phuong trinh co 2 nghiem phan biet
120
            else
121
               printf("\nPhuong trinh co hai nghiem phan biet:");
122
               printf("\n\tx1 = (%d - sqrt(%d))/%d", -b, Delta, 2 * a);
123
124
               printf("\n\tx2 = (\d + sqrt(\d))/\d", -b, Delta, 2 * a);
125
            }
         }
126
127
         else //Delta am phuong trinh vo nghiem
128
            printf("\nPhuong trinh vo nghiem !");
129
         getch();
         return 0;
130
131
132
      ************************************
133
134
      /*Bai 5:
      Viet chuong trinh nhap tu ban phim 2 so a, b va mot ky tu ch.
135
136
         - ch la "+" thi thuc hien phep tinh a + b va in ket qua len man hinh
137
138
         - ch la "-" thi thuc hien phep tinh a - b va in ket qua len minh hinh
139
         - ch la "*" thi thuc hien phep tinh a * b va in ket qua len minh hinh
140
         - ch la "/" thi thuc hien phep tinh a / b va in ket qua len minh hinh
      * /
141
142
      #include <stdio.h>
143
      #include <conio.h>
144
145
146
      int main()
147
148
         int a, b;
149
         char c;
150
151
         clrscr();
152
         printf("\nNhap vao 2 so a, b :");
153
         scanf("%d%d", &a, &b);
154
         fflush(stdin);
         printf("\nPhep toan muon thuc hien:");
155
156
         scanf("%c",&c);
157
         switch(c)
158
         {
159
160
               printf("\nTong cua hai so la: %d", a+b);
161
               break;
            case '-':
162
               printf("\nHieu cua hai so la: %d", a-b);
163
164
               break;
            case '*':
165
166
               printf("\nTich cua hai so la: %d", a*b);
167
               break;
```

```
168
           case '\':
169
              if(b == 0)
170
                 printf("\nKhong the thuc hien duoc phep chia !");
171
172
                 printf("\nThuong cua hai so la: %.2f",(float)a/b);
173
              break;
174
           default:
175
              printf("\nBan da nhap vao phep toan sai !");
176
              break;
177
        }
178
        getch();
179
        return 0;
180
      /*********************************
181
      ************************************
182
      /*Bai 6:
183
184
     Chuong trinh nhap vao 2 so la thang va nam cua mot nam.
     -> Cho biet thang do co bao nhieu ngay ?
185
186
     Biet:
187
        + Thang 1, 3, 5, 7, 8, 10, 12 co 31 ngay.
        + Thang 4, 6, 9, 11 co 30 ngay
188
189
        + Thang 2 co:
190
           ++29 ngay neu la nam nhuan
191
           ++28 neu khong phai la nam nhuan
      (Nam nhuan la nam chia het cho 400 hoac chia het cho 4 va khong chia het cho 100)
192
193
     #include <stdio.h>
194
195
     #include <conio.h>
196
197
     int main()
198
199
        int n, m;
        clrscr();
200
201
        printf("\nNhap thang - nam:");
202
        scanf("%d%d",&n,&m);
        switch(n)
203
204
        {
205
           case 1:
206
           case 3:
           case 5:
207
208
           case 7:
209
           case 8:
           case 10:
210
211
           case 12:
              printf("\nSo ngay trong thang %d la: 31",n);
212
213
              break;
214
           case 4:
215
           case 6:
216
           case 9:
217
           case 11:
              printf("\nSo ngay trong thang %d la: 30",n);
218
              break;
219
220
221
           default:
222
              if(m%400 == 0 | | (m%4 == 0 \&\& m%100 != 0)) //La nam nhuan
223
              {
```

```
224
                 printf("\nSo ngay trong thang %d la: 29",n);
225
                 break;
226
              }
227
              else //Khong phai la nam nhuan
228
                 printf("\nSo ngay trong thang %d la: 28",n);
229
2.30
                 break;
              }
231
232
        }
233
        getch();
234
        return 0;
235
     /*****************************
236
     ************************************
237
     /*Bai 7:
238
239
     Co 2 phuong thuc goi tiet kiem:
240
        + Goi khong thoi han lai suat 2.4 % / thang, moi thang tinh lai 1 lan.
        + Goi ky han 3 thang lai suat 4 % / thang, 3 thang tinh lai mot lan.
241
242
      -> Viet chuong trinh tinh ca von lan loi sau mot thoi gian goi
243
     * /
244
245
     #include <stdio.h>
     #include <conio.h>
246
247
     #define LAI_SUAT_1 2.4 //Khai bao hang LAI_SUAT_1 = 2.4
248
     #define LAI_SUAT_2 4 //Khai bao hang LAI_SUAT_2 = 4
249
250
251
     int main()
252
     {
253
        int kyhan; //Ky han goi
254
        float tien; //So tien goi
        int thang; //So thang goi
255
        float tienTT; // Tien thanh toan
256
257
258
        clrscr();
259
        printf("\nNhap loai ky han (0: khong ky han, 3: ky han 3 thang):");
260
        scanf("%d",&kyhan);
261
        printf("\nNhap so tien goi (VND):");
262
        scanf("%f",&tien);
263
        printf("\nNhap so thang goi:");
264
        scanf("%d",&thang);
265
266
        switch(kyhan)
267
           case 0: //Neu ki han la: khong ky han
268
269
              int i;
              tienTT = 0;
270
              for(i = 1; i <= thang; i++)</pre>
271
272
                 tienTT = tien + tien * 2.4/100;
2.73
274
                 tien = tienTT; //Thang sau thi tien la Tien + lai cua thang truoc
275
276
              printf("\nTong so tien thanh toan la: %.2f",tienTT);
277
              break;
278
279
           case 3: //Neu ky han la 3 thang
```

```
280
             //int i;
281
             tienTT = 0;
282
             for (i = 1; i \le thang/3; i++) //Du 3 thang moi tinh lai suat 1 lan
283
284
                tienTT = tien + tien * 4/100;
                tien = tienTT;
285
2.86
287
             printf("\nTong so tien thanh toan la: %.2f",tienTT);
288
             break;
289
          default:
             printf("\nNhap ky han khong hop le !");
290
291
             break;
292
        }
        getch();
293
294
        return 0;
295
     /******************************
296
     ************************************
297
298
     /*Bai 8:
     Chuong trinh kiem tra 1 so co 3 chu so co chia het cho 3 hay khong ?
299
300
     Biet: 1 so chia het cho 3 neu tong cua 3 chu so chia het cho 3.
301
     * /
302
303
     #include <stdio.h>
     #include <conio.h>
304
305
306
     int main()
307
308
        int n, m, donvi, chuc, tram;
309
        clrscr();
310
        printf("\nNhap so:");
311
        scanf("%d",&n);
312
        donvi = n % 10;
313
        chuc = (n / 10) %10;
314
       tram = (n / 10) / 10;
        m = donvi + chuc + tram;
315
316
        if(m %3 == 0) //Neu tong cua cac chu so chia het cho 3
317
          printf("\nSo %d chia het cho 3 !", n);
318
        else
                     //Neu tong cua cac chu so khong chia het cho 3
319
          printf("\nSo %d khong chia het cho 3 !", n);
320
321
        getch();
322
323
        return 0;
324
     /******************************
325
     **************************
326
     /*Bai 9:
327
     Tro choi "oan tu ti"
328
     Tro choi co 2 nguoi choi moi nguoi se dung tay de bieu thi 1 trong 3 cong cu: Keo, Bao,
329
     Bua.
330
     Nguyen tac:
331
       +Keo thang Bao
332
        +Bao thang Bua
333
        +Bua thang Keo
334
     ->Viet chuong trinh mo phong tro choi nay cho hai nguoi choi va nguoi choi voi may
```

```
335
     * /
336
337
     #include <stdio.h>
338
     #include <conio.h>
339
     #include <stdlib.h>
340
341
     int main()
342
343
        char c1, c2;
344
        //k: keo
345
        //a: bao
346
        //u: bua
347
        clrscr();
348
        fflush(stdin);
349
        printf("\nNguoi thu nhat ra (k-a-u): ");
350
        scanf("%c",&c1);
351
        printf("\nNguoi thu hai ra (k-a-u): ");
352
        fflush(stdin);
353
        scanf("%c",&c2);
        if(c1 != c2) //Neu 2 nguoi ra khac nhau
354
355
356
           357
              printf("\nNguoi thu nhat thang !");
358
           else
              printf("\nNguoi thu hai thang !");
359
360
        }
361
        else //Neu hai nguoi ra giong nhau
362
           printf("\nHai nguoi hue nhau !");
363
        getch();
364
        return 0;
365
366
     ************************************
367
368
     Viet chuong trinh tinh tien dien gom cac khoan sau:
369
370
        + Tien thue bao dien ke: 1000d/thang
371
        + Dinh muc su dung dien cho moi ho la 50 Kw: gia 450d/Kwh
372
        + Neu phan vuot dinh muc <= 50 Kw thi tinh gia phat cho phan nay la 700 d/Kwh
        + Neu phan vuot dinh muc lon hon 50 Kw va nho hon 100 Kw tinh gia cho phan nay la
373
        1200 d/Kwh
     Voi chi so dien cu va chi so dien moi nhap vao tu ban phim.
374
375
     -> In ra man hinh so tien trong trong dinh muc, vuot dinh muc va tong cua chung!
     * /
376
377
378
     #include <stdio.h>
     #include <conio.h>
379
     #define THUE_BAO 1000
380
381
     int main()
382
                         //So dien tieu thu
383
        float kw = 0;
        float e_pre = 0; //Chi so dien cu
384
385
        float e_af = 0;
                         //Chi so dien moi
        float d = 0;
                         //Chi so dien tieu chuan
386
387
        float d1 = 0;
                         //Chi so dien vuot dinh muc 1
388
        float d2 = 0;
                         //Chi so dien vuot dinh muc 2
```

```
389
         float d3 = 0; //Chi so dien vuot dinh muc 3
390
         int i = 0;
391
         clrscr();
392
393
         do //Neu chi so dien sau nho hon chi so truoc thi yeu cau nguoi dung nhap lai
394
395
            clrscr();
            if( i != 0)
396
              printf("\nNhap sai ! Nhap lai du lieu");
397
398
           printf("\nNhap chi so dien cu:");
           scanf("%f",&e pre);
399
           printf("\nNhap chi so dien moi:");
400
401
           scanf("%f",&e_af);
402
            i = 1;
403
         }while(e_pre > e_af);
404
405
        kw = e_af - e_pre;
406
         if(kw <= 50) //Neu so dien tieu thu <= 50 Kw</pre>
407
408
           d = kw;
         }
409
410
         else
411
412
            if( kw <= 100) //neu so dien tieu thu <= 100
413
            {
              d = 50;
414
              d1 = kw - 50;
415
416
            }
417
            else
418
419
               if(kw <= 150) //Neu so dien tieu thu <= 150
420
                 d = 50;
421
422
                 d1 = 50;
423
                 d2 = kw - 100;
424
               }
425
              else
                            //Neu so dien tieu thu > 150
426
427
                 d = 50;
                 d1 = 50;
428
429
                 d2 = 50;
                 d3 = kw - 150;
430
431
432
            }
433
434
        printf("\nTien thue bao: %d D",THUE_BAO);
435
        printf("\nSo kw dinh muc:%.0f Kw Tien:%.0f D",d,d*450);
        printf("\nSo kw vuot dinh muc 1:%.0f Kw Tien:%.0f D",d1,d1*700);
436
437
        printf("\nSo kw vuot dinh muc 2:%.0f Kw Tien:%.0f D",d2,d2*910);
        printf("\nSo kw vuot dinh muc 3:%.0f Kw Tien:%.0f D",d3,d3*1200);
438
439
        printf("\nTong so dien tieu thu: %.1f
                                                  Tong so tien phai tra: %.0f D",
                          kw, THUE_BAO + d*450 + d1*700 + d2*910 + d3*1200);
440
441
        getch();
442
        return 0;
443
          ***********************************
444
```

```
***********************************
445
446
      /*Bai 11:
447
     Chuong trinh nhap vao 1 thoi gian dinh dang hh:mm:ss
448
     -> Nhap vao 1 so giay
449
     -> Cong so giay vao thoi gian vua nhap
     -> In ra thoi gian hien tai
450
451
     * /
452
453
     #include <stdio.h>
454
     #include <conio.h>
455
456
      //Ham kiem tra thoi gian nhap co hop le hay ko?
457
     int KiemTraTG(int h, int m, int s)
458
     {
459
         if(h<0 \mid | m<0 \mid | s<0) //Neu thoi gian nhap vao nho hon 0 ->sai
460
                       //Tra ve 1
            return 1;
461
         if(h> 23 | m > 59 | s >59) //Hoac gio > 23, phut > 59 hoac giay > 59 ->sai
462
            return 1; //Tra ve 1
463
        return 0; //Neu thoi gian nhap vao dung thi tra ve 0
464
     }
465
466
     void main()
467
468
        int h,m,s;
469
        long n;
470
        clrscr();
471
        printf("\nNhap vao thoi gian (hh:mm:ss): ");
472
        scanf("%d%d%d",&h,&m,&s);
473
474
        while(KiemTraTG(h,m,s)== 1)//Neu nguoi dung nhap vao thoi gian sai thi yeu cau nhap
        lai!
475
           printf("\nNhap sai ! Nhap lai di !");
476
477
           getch();
478
           clrscr();
479
           printf("\nNhap vao thoi gian (hh:mm:ss): ");
480
            scanf("%d%d%d",&h,&m,&s);
481
         }
482
         printf("\nNhap vao 1 so giay:");
483
         scanf("%d",&n);
484
485
         while (n != 0) //Neu so giay != 0
486
            if(s + n < 60) //Cong vao giay hien tai neu < 60 thi binh thuong
487
488
            {
489
               s = s+n;
490
              n = 0;
491
            }
492
            else //Neu tong >= 60: dat giay lai = 1 va phut tang len 1
            {
493
494
               s = 0;
495
              n = (n+s) - 60;
496
497
               if(m > 59) //Nhung neu phut >59: dat phut = 1 va tang gio len 1
498
499
                 m = 0;
```

```
500
                  h++;
501
                  if(h> 23)
                              //Nhung neu gio >23: dat gio = 0
502
                     h = 0;
503
               }
504
            }
505
         }//Tiep tuc cong giay con lai vao giay hien tai
506
         printf("\nThoi gian hien tai la: %d : %d : %d",h,m,s);
507
         getch();
508
509
      ************************************
510
511
      /*Bai 12:
512
      Chuong trinh nhap vao ngay-thang-nam
513
      ->Kiem tra xem ngay co hop le hay khong ?
514
      * /
515
516
      #include <stdio.h>
      #include <conio.h>
517
518
519
      int main()
520
521
         int ngay,thang,nam;
522
         clrscr();
523
         printf("\nNhap ngay, thang, nam :");
         scanf("%d%d%d",&ngay,&thang,&nam);
524
525
         if(nam < 0) //Nhap nam < 0 --->sai
526
            printf("Du lieu nhap hok hop le !");
527
528
         }
         else
529
530
            if(thang <1 || thang > 12) //Nhap thang < 1 hoac thang >12 --->sai
531
532
533
               printf("\nDu lieu nhap khong hop le !");
534
            }
            else
535
536
            {
537
               switch(thang)
538
                  case 1:
539
540
                  case 3:
541
                  case 5:
542
                  case 7:
543
                  case 8:
544
                  case 10:
545
                  case 12:
                     if(ngay > 0 && ngay <= 31) //Nhung thang co 31 ngay</pre>
546
                        printf("\nDu lieu hop le !");
547
548
                     else
549
                        printf("\nDu lieu khong hop le !");
550
                     break;
551
                  case 4:
552
                  case 6:
553
                  case 9:
554
                  case 11:
555
                     if(ngay > 0 && ngay<= 30) //Nhung thang co 30 ngay</pre>
```

```
556
                       printf("\nDu lieu hop le !");
557
558
                       printf("\nDu lieu khong hop le !");
559
                    break;
560
                 case 2:
                    if(nam % 400 == 0 | | (nam % 4 == 0 && nam % 100 != 0)) //neu la nam nhuan
561
562
                       if(ngay > 0 && ngay <= 29) //Nam nhuan thang 2 co 29 ngay
563
                          printf("\nDu lieu hop le !");
564
565
                       else
                          printf("\nDu lieu khong hop le !");
566
                    }
567
568
                    else
569
                     {
570
                       if(ngay > 0 && ngay <= 28) //Thang 2 nam khong nhuan</pre>
571
                          printf("\nDu lieu hop le !");
572
                       else
573
                          printf("\nDu lieu khong hop le !");
574
                    }
                    break;
575
576
              }
577
            }
         }
578
579
        getch();
580
        return 0;
581
      /**********************************
582
      ************************************
583
      /*Bai 13:
584
585
     Chuong trinh kiem tra mot ky tu nhap vao thuoc tap hop nao trong cac tap ky tu sau:
586
        +Cac ky tu chu hoa 'A'...'Z'
         +Cac ky tu chu thuong 'a'...'z'
587
        +Cac ky tu chu so: '0'...'9'
588
589
        +Cac ky tu khac
      * /
590
591
592
     #include <stdio.h>
593
     #include <conio.h>
594
595
     void main()
596
597
        char c;
598
         clrscr();
        printf("\nNhap 1 ky tu:");
599
600
         scanf("%c",&c);
601
         if(c >= 'A' && c <='Z')</pre>
602
           printf("\nKy tu %c thuoc tap ky tu chu hoa !",c);
603
         else
604
            if (c >= 'a' && c <='z')</pre>
605
606
              printf("\nKy tu %c thuoc tap ky tu chu thuong !",c);
607
            else
608
               if(c >= '0' && c <='9')
609
                 printf("\nKy tu %c thuoc tap ky tu so !",c);
610
              else
611
                 printf("\nKy tu %c thuoc cac ky tu khac !");
```

```
612
       getch();
613
     /********************************
614
     ************************************
615
616
617
     Chuong trinh nhap vao 1 ky so he thap luc phan
     -> In ra gia tri thap phan tuong ung !
618
     * /
619
620
621
     #include <stdio.h>
     #include <conio.h>
622
623
624
     void main()
625
     {
626
       char c;
627
628
       clrscr();
629
        printf("\nNhap 1 ky so he thap luc phan:");
630
        scanf("%c",&c);
631
632
        switch(c)
633
        {
634
          case '0':
          case '2':
635
636
          case '3':
637
          case '4':
638
          case '5':
639
          case '6':
640
          case '7':
641
          case '8':
642
          case '9':
             printf("\nGia tri thap phan tuong ung la: %d",c - 48);//So 0 co ma Ascii la 48
643
644
             break;
645
          case 'A':
          case 'B':
646
647
          case 'C':
648
          case 'D':
649
          case 'E':
650
          case 'F':
             printf("\nGia tri thap phan tuong ung la: %d",c - 55);//'A' co ma Ascii la 65
651
652
             break;
653
          default:
             printf("\nHe thap luc phan khong dung ky so nay !");
654
655
        }
656
657
       getch();
658
     /******************************
659
     ************************************
660
     /*Bai 15:
661
662
     Chuong trinh nhap vao ngay-thang-nam cua hom nay
     ->In ra ngay-thang-nam cua ngay mai!
663
664
     * /
665
     #include <stdio.h>
666
     #include <conio.h>
667
```

```
668
      int NgayHopLe(int ngay, int thang, int nam); //Khai bao nguyen mau ham
669
      int main()
670
      {
671
         int ngay,thang,nam;
672
         int ngay1,thang1,nam1;
673
674
         clrscr();
675
         printf("\nNhap ngay-thang-nam:");
676
         scanf("%d%d%d",&ngay,&thang,&nam);
677
         printf("\nNgay hien tai: %d/%d/%d",ngay,thang,nam);
         if(NgayHopLe(ngay, thang, nam) == 0) //Neu ham kiem tra ngay tra ve ket qua = 0
678
         ->Ngay ko hop le !
679
680
            printf("\nNhap ngay thang khong hop le !");
681
            getch();
682
            return 0;
683
         }
684
685
         ngay1 = ngay + 1; //Thu cong ngay len 1
686
         thang1 = thang;
687
         nam1 = nam;
688
         if(NgayHopLe(ngay1,thang1,nam1)) //Neu ngay thang hop le thi OK
689
            printf("\nNqay tiep theo la: %d/%d/%d",nqay1,thanq1,nam1);
690
         else //Nguoc lai: ngay ko hop le (thang 1 hien tai la 31 cong 1 -> 32: sai !)
691
         {
692
            ngay1=1;
693
            thang1 = thang1 + 1; //Thu cong thang len 1
694
            if(NgayHopLe(ngay1,thang1,nam1)) //Neu ngay hop le thi Ok
695
               printf("\nNgay tiep theo la: %d/%d/%d",ngay1,thang1,nam1);
            else //Nguoc lai: ngay khong hop le (thang hien tai la 12 cong 1 -> 13: sai !)
696
697
698
               ngay1 = 1;
699
               thang1 = 1;
700
               nam1 = nam1 + 1;
701
               if(NgayHopLe(ngay1,thang1,nam1))
                  printf("\nNgay tiep theo la: %d/%d/%d",ngay1,thang1,nam1);
702
703
               else
704
                  printf("\nKhong tim thay ngay hop le !");
705
706
707
            }
708
         }
709
        getch();
710
        return 0;
711
712
      //Ham kiem tra ngay nhap vao co hop le hay khong
      int NgayHopLe(int ngay, int thang, int nam)
713
714
      {
715
         if(nam < 0)
716
717
            return 0;
                        //Tra ve 0 neu ngay hok hop le
         }
718
719
         else
720
            if(thang <1 || thang > 12)
721
722
            {
```

```
723
              return 0; //Tra ve 0 neu ngay khong hop le!
           }
724
725
           else
726
727
              switch(thang)
728
729
                 case 1:
730
                 case 3:
731
                 case 5:
732
                 case 7:
                 case 8:
733
734
                 case 10:
735
                 case 12:
                   if(ngay <= 0 || ngay > 31)
736
737
                      return 0;
738
                 case 4:
739
                 case 6:
740
                 case 9:
741
                 case 11:
                   if(ngay <= 0 || ngay >30)
742
743
                      return 0;
744
                 case 2:
                   if(nam % 400 == 0 | (nam % 4 == 0 && nam % 100 != 0))
745
746
747
                      if(ngay < 1 || ngay >29)
748
                         return 0;
749
                   }
750
                   else
751
752
                      if(ngay < 1 || ngay >28)
753
                         return 0;
754
755
                   break;
756
              }
757
           }
758
759
        return 1;
760
                  ********************
761
     *******************************
762
763
     /*Bai 16a
764
     Chuong trinh tinh tong: S = 1 + 2 + 3 + ... + n
765
766
     #include <stdio.h>
     #include <conio.h>
767
768
769
     int main()
770
771
        int n,s;
772
        int i;
773
        clrscr();
774
        printf("\nNhap n:");
775
        scanf("%d",&n);
776
777
        s = 0;
778
```

```
779
        /*Cach 1: dung for()*/
        for(i= 1;i <= n; i++)</pre>
780
781
782
          s = s + i;
783
        }
784
785
        /*Cach 2: dung while()*/
786
       /*
        i = 1;
787
788
        while (i \le n)
789
          s = s + i;
790
791
          i++;
792
793
        * /
794
795
       /*Cach 3: dung do-while()*/
796
       /*
797
        i = 0;
798
        do
799
800
          s = s + i;
          i ++;
801
802
        }while(i <= n);</pre>
803
804
        printf("\nTong la: %d",s);
805
        getch();
806
        return 0;
807
808
     ************************************
809
810
     Chuong trinh tinh tong: S = 1/2 + 2/3 + ... + n/(n+1)
811
     * /
812
813
814
     #include <stdio.h>
815
    #include <conio.h>
816
817
    void main()
818
819
       int n;
820
       int i;
       float s = 0;
821
822
      clrscr();
823
        printf("\nNhap n:");
824
       scanf("%d",&n);
825
       for(i = 1; i <= n; i++)</pre>
826
827
          s = s + (float)i / (i+1); //Ep kieu sang kieu so thuc
828
829
        printf("\nKet qua la: %.2f",s);
830
831
        getch();
832
     /*****************************
833
     ************************************
834
```

```
835
     /*Bai 16c
836
     Chuong trinh tinh tong s = -1 + 2 - 3 + ... + (-1)^n .n
837
     #include <stdio.h>
838
839
     #include <conio.h>
840
     #include <math.h>
841
     void main()
842
843
844
        int n,i,f;
        float s = 0;
845
846
847
        printf("\nNhap n:");
848
        scanf("%d",&n);
849
        for(i = 1; i<= n; i++)</pre>
850
851
852
           s = s + pow(-1, n) * n;
853
        }
854
        printf("\nKet qua la: %.2f",s);
855
        getch();
856
     }
     /*******************************
857
     ************************************
858
859
     /*Bai 18:
     Chuong trinh in ra day so Fibonancy co n so, voi n nhap tu ban phim
860
861
862
863
     #include <stdio.h>
864
     #include <conio.h>
865
866
     void main ()
867
     {
868
        int n;
869
        int f1 = 1;
870
        int f2 = 2;
871
        int fn;
        int i = 3; // vi tri day fibo hien tai
872
873
874
        clrscr();
875
        printf("\nNhap n:");
876
        scanf("%d",&n);
877
        printf("\nFi(1) = 1");
878
        printf("\nFi(2) = 2");
879
880
881
        while (i <= n)
882
        {
883
           fn = f1 + f2;
           printf("\nFi(%d) = %d",i,fn);
884
           f1 = f2;
885
           f2 = fn;
886
887
           i++;
888
889
        getch();
890
     }
```

```
/******************************
891
     ************************************
892
893
     /*Bai 19:
894
    Chuong trinh nhap vao 1 so nguyen.
895
    -> Dem so chu so cua so vua nhap
     * /
896
897
    #include <stdio.h>
    #include <conio.h>
898
899
900
    void main()
901
    {
902
       int n; //so nhap vao
903
       int count = 0;
904
       clrscr();
       printf("\nNhap so:");
905
906
       scanf("%d",&n);
907
908
       while (n > 0)
909
         n = n / 10; //Chia nguyen cho 10-> giam 1 chu so
910
911
         count++;
912
       }
913
914
       printf("\nSo da nhap co: %d",count);
915
       getch();
916
     /*******************************
917
     ************************************
918
     /*Bai 20:
919
    Chuong trinh nhap vao mot so nguyen n
920
921
    ->Tim so nguyen duong k nho nhat sao cho 2^k > n
922
    * /
923
924
    #include <stdio.h>
925
    #include <conio.h>
    #include <math.h>
926
927
    void main()
928
929
       int n;
930
       int k = 0;
931
932
       clrscr();
933
       printf("\nNhap n:");
934
       scanf("%d",&n);
935
       while (pow(2,k) < n)
936
937
       printf("\nSo k can tim la: %d",k);
938
       getch();
939
                  *****************
940
     ************************************
941
942
     /*Bai 21:
943
    Chuong trinh dao nguoc 1 so nguyen n, voi n nhap tu ban phim
     * /
944
945
946
    #include <stdio.h>
```

```
947
      #include <conio.h>
 948
      #include <math.h>
949
950
      void main()
951
952
         long phan_nguyen, phan_du;
953
         long n;
954
955
         clrscr();
956
         printf("\nNhap 1 so nguyen:");
         scanf("%d",&n);
957
958
         n = abs(n);
959
         printf("\nSo nghich dao cua %d la:",n);
960
961
         phan_nguyen = n;
962
         phan_du = 0;
963
         while (phan_nguyen != 0)
964
965
            phan_du = phan_nguyen % 10;
966
            phan_nguyen = phan_nguyen / 10;
            printf("%d",phan_du);
967
968
         }
         getch();
969
970
              971
      ************************************
972
973
      /*Bai 23:
974
      Chuong trinh mo phong phep chia nguyen DIV 2 so nguyen a va b nhu sau:
975
      - Tinh hieu a-b,
976
      - Sau do lay hieu tim duoc tru tiep cho b
977
      - Tiep tuc cho den khi hieu cua no nho hon b.
      - So lan thuc hien phep tru chinh la tri cua phep chia nguyen
978
979
      * /
980
981
      #include <stdio.h>
982
      #include <conio.h>
983
984
      void main()
985
986
         int a,b;
987
         int kq = 0;
988
989
         clrscr();
990
         printf("\nNhap 2 so a, b:");
         scanf("%d%d",&a,&b);
991
992
         printf("\nThuong cua hai so %d va %d la:",a,b);
993
         //Su dung vong lap while
         /*while (a >= b)
994
995
996
            a = a - bi
997
           kq++;
998
999
         * /
1000
1001
         //Su dung vong lap for
1002
         for (; a >= b; kq++)
```

```
1003
1004
           a = a - b;
1005
1006
1007
         printf("%d",kq);
1008
         getch();
1009
1010
      ************************************
1011
1012
      /*Cau 24:
      Tim so nguyen duong N nho nhat sao cho:
1013
      1 + 1/2 + \ldots + 1/N > S, voi S nhap tu ban phim
1014
1015
1016
1017
      #include <stdio.h>
1018
     #include <conio.h>
1019
    #include <dos.h>
1020
     void main()
1021
1022
        float s ;
1023
        float s1 = 1;
1024
        int i = 1;
1025
1026
       clrscr();
         printf("\nNhap S:");
1027
       scanf("%f",&s);
1028
1029
         while (s1 <= s)</pre>
1030
1031
           i++;
1032
           s1 = s1 + \frac{1}{(float)i};
1033
         printf("\nKet qua = %d",i);
1034
1035
         getch();
1036
      /*****************************
1037
1038
      ************************************
1039
      Viet chuong trinh tinh P = 2 * 4 * 6...* 2n, n nhap tu ban phim
1040
1041
      * /
1042
1043
      #include <stdio.h>
      #include <conio.h>
1044
1045
1046
     void main()
1047
1048
         int n,i;
1049
         long p = 0;
1050
         clrscr();
1051
         printf("\nNhap n:");
         scanf("%d",&n);
1052
1053
         for(i = 1; i <= n; i++)</pre>
1054
1055
           p += 2 * i;
         printf("\nP = %d",p);
1056
1057
         getch();
1058
      }
```

```
1059
      ************************************
1060
1061
      /*Bai 26:
1062
      Chuong trinh tim UCLN va BCNN
1063
      * /
1064
      #include <stdio.h>
1065
      #include <conio.h>
1066
      #include <math.h>
      int UCLN(int a, int b);
1067
      int BCNN(int a, int b);
1068
1069
1070
      void main()
1071
1072
        int a,b;
1073
        clrscr();
1074
        printf("\nNhap 2 so a, b:");
1075
        scanf("%d%d",&a,&b);
1076
1077
        printf("\nUCLN(%d,%d) = %d",a,b,UCLN(a,b));
1078
        printf("\nBCNN(%d,%d) = %d",a,b,BCNN(a,b));
1079
        getch();
1080
      }
1081
1082
      //Ham tim UCLN cua hai so a,b
1083
      int UCLN(int a, int b)
1084
1085
        while(a != b)
1086
1087
           if(a>b)
1088
              a = a - b;
1089
           else
              b = b - a;
1090
1091
        }
1092
        return a;
1093
1094
      //Ham tim BCNN cua hai so a,b
1095
      int BCNN(int a,int b)
1096
1097
        return (a*b) / UCLN(a,b);
1098
      }
1099
1100
1101
1102
1103
1104
1105
1106
1107
1108
1109
1110
```