```
#include<stdio.h>
 1:
   #include<conio.h>
 2:
 3: #include <stdlib.h>
 4: //Nhap mang 1 chieu:
 5: void NhapMang(int *a, int n)
   {int i;
 6:
         for (i=0; i< n; i++)
 7:
 8:
         {
             printf("\n Nhap phan tu
 9:
    %d: ",i);
             scanf("%d",a+i);
10:
11:
12: }
13: //Xuat mang 1 chieu:
14: void XuatMang(int *a, int n)
15: {int i;
16:
        for (i=0; i < n; i++)
           printf("\t^{\circ}d", *(a+i));
17:
18: }
19: // Kiem tra so nt
20:
    int kt snt(int n)
21:
22:
       int dem=0, i;
23:
       for (i=1; i<=n; i++)</pre>
          if (n%i==0)
24:
25:
             dem++;
26:
             if (dem==2) return 1;
27:
       return 0;
28: }
29: // Kiem tra so chinh phuong
```

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```
30:
    int kt scp(int n)
31:
32:
        int i;
        for (i=1; i<=n; i++)</pre>
33:
          if(i*i==n)
34:
35:
              return 1;
36:
        return 0;
37: }
38: // Chuong trinh in ra các so nt
39: void In nto(int *a, int n)
40:
41:
         int i;
42:
         for (i=0; i < n; i++)</pre>
43:
            if (kt snt(*(a+i))==1)
               printf("\text{t%d", * (a+i));
44:
45: }
46: void In cp(int *a, int n)
47: {
48:
         int i;
49:
         for (i=0; i < n; i++)</pre>
            if(kt scp(*(a+i)) == 1)
50:
               printf("\t%d", *(a+i));
51:
52: }
53: //
    int max nt(int *a,int n)
54:
55:
56:
        int max=-1, i;
        for (i=0; i<n; i++)</pre>
57:
58:
          if(kt snt(*(a+i))==1)
59:
           {
             max=*(a+i);
60:
61:
            break;
```

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```
62:
          }
63:
        for (i=0; i<n; i++)
          if(kt snt(*(a+i)) == 1 &&
64:
    *(a+i)>max)
65:
            max=*(a+i);
66:
        return max;
67:
        }
68: // Tim so chinh phuong chan max
69: int max cp(int *a, int n)
70: {
71:
        int max=-1, i;
72:
        for (i=0; i<n; i++)</pre>
          if((kt scp(*(a+i)) == 1)
73:
    &&(*(\underline{a}+i)%2==0))
74:
75:
            max=*(a+i);
76:
            break;
77:
          }
78:
        for (i=0; i<n; i++)</pre>
          if((kt scp(*(a+i)) == 1)
79:
    &&(*(a+i)%2==0) && (*(a+i)>max))
            max=*(a+i);
80:
81:
        return max;
82:
83:
     // In ra vi tri cua so co gia tri
    banq X
     void In vt X(int *a, int n,int X)
84:
85:
86: int i;
87: for(i=0; i < n; i++)
          if(*(a+i) ==X)
88:
89:
```

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```
90:
            printf("\t %d",i);
 91:
 92:
 93: // In ra vi tri dau tien
    int In vtdau_X(int *a, int n,int
 94:
     X)
 95:
 96: int i, vt;
 97: for(i=0; i < n; i++)
           if(*(a+i) ==X)
 98:
 99:
100:
            vt=i;
101:
           break;
102:
103:
           return vt;
104:
105: // In ra vi tri dau tien
106: int In vtcuoi_X(int *a, int \underline{n}, int
     X)
107:
108: int i, vt;
109: for(i=n-1;i>=0;i--)
           if(*(a+i) ==X)
110:
111:
112:
           vt=i;
113:
            break;
114:
           }
115:
           return vt;
116: }
117: // Chuong trinh chinh
118: int main()
119:
```

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```
int *a,n,i,k,giatri;
120:
        do // nhap so phan tu >=1 Nho
121:
     hon 50
122:
        {
123:
        printf("\n Nhap vao so phan tu
     mang");
         scanf("%d",&n);
124:
125:
126:
         while (n<1 | | n>50);
127:
         a=(int
128:
     *) malloc(n*sizeof(int));
     phat bo nho dong
         NhapMang(a,n);
129:
         printf("\n Mang vua nhap
130:
     la:"); // Kiem tra xem nhap da
         XuatMang(a,n);  // dung hay
131:
     chua
132:
         giatri=max cp(a,n);
         if (giatri==-1)
133:
         printf("\n Khong co so cp");
134:
135:
         else
136:
137:
              // Cac so cp trong mang la
138:
         printf("\n Cac so cp trong
     mang");
139:
         In cp(a,n);
         printf("\n So cp chan max la:
140:
     %5d", qiatri);
         printf("\n Vi tri so cp chan
141:
     max ");
142:
         In vt X(a,n,giatri);
```

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```
143:
         // In ra vi tri chinh phuong
     max dau tien
         printf("\n Vi tri cp max dau
144:
     tien la: %d", In vtdau X(a,n,
     giatri));
145:
        ;
146:
         }
         // In ra vi tri chinh phuong
147:
     cuoi cung
148:
          printf("\n Vi tri so max
149:
     nguyen to ");
         In vt X(a,n,max nt(a,n));
150:
         printf("\n Vi tri so max
151:
     nguyen to cuoi cung %d",
     In vtcuoi X(a,n,max nt(a,n)));
152:
153:
         free(a); // giai phong bo nho
154: return 1;
155:
156:
```

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