```
1: // Buoi 3: Cac bai toan chen va xoa
 2:
 3: #include<stdio.h>
 4: #include<conio.h>
 5: #include <stdlib.h>
 6: //Nhap mang 1 chieu:
 7: void NhapMang(int *a, int n)
 8: {int i;
 9:
        for (i=0;i<n;i++)</pre>
10:
             printf("\n Nhap phan tu %d: ",i);
11:
             scanf("%d",a+i); //(a+i) = &a[i]
12:
13:
14: }
15: //Xuat mang 1 chieu:
16: void XuatMang(int *a, int n)
17: {int i;
18:
        for (i=0;i<n;i++)</pre>
19:
           printf("\t%d", *(a+i)); //*(a+i)=a[i]
20: }
21: // Kiem tra so nt
22: int kt snt(int n)
23: {
24:
       int dem=0, i;
25:
       for (i=1; i<=n; i++)</pre>
         if (n%i==0)
26:
27:
             dem++;
28:
             if (dem==2) return 1;
29:
       return 0;
30: }
31: // Kiem tra so chinh phuong
32: int kt scp(int n)
33: {
34:
       int i;
       for (i=1; i<=n; i++)</pre>
35:
36:
          if(i*i==n)
37:
             return 1;
38:
       return 0:
39: }
```

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```
40: // Ham tim so nt min
41: int min nt(int *a, int n)
42: {int i, min=-1;
43:
         for (i=0; i<n; i++)</pre>
44:
            if(kt snt(*(a+i)) == 1)
45:
46:
               min=*(a+i);
47:
               break;
48:
49:
     for (i=0; i<n; i++)
50:
            if (kt snt(*(a+i)) == 1 && min>*(a+i))
51:
52:
                min=*(a+i);
53:
54:
         return min;
55: }
56: // Hàm Chen so X vao vi tri bat ky trong mang
57: void chen X(int *a,int *n,int vt, int X)
58:
    {
59:
         realloc(a, ((*n)+1)*sizeof(int*));
60:
         int i;
61:
         for (i=*n;i>vt;i--)
            *(a+i) = *(a+i-1);
62:
63:
             *(a+vt) = X;
64:
         (*n)++;
65: }
66: // Ham chen X vao sau cac so nguyen to
    void ChenX sau nto(int *a,int *n, int X)
68: {
69:
         int i;
70:
         for (i=0; i<(*n); i++)</pre>
71:
72:
                if(kt snt(*(a+i)) == 1)
73:
74:
                chen X(a,n,i+1,X);
75:
                <u>i++;</u>
76:
                }
77:
            }
78: }
79: // Chuong trinh chinh
```

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```
80:
 81: int main()
 82:
 83:
        int *a,n,i,X,vt;
 84:
        float TBC;
 85:
        do // nhap so phan tu >=1 Nho hon 50
 86:
        {
 87:
         printf("\n Nhap vao so phan tu mang: ");
 88:
         scanf("%d", &n);
 89:
 90:
        while (n<1 | | n>50);
 91:
 92:
         a=(int *)malloc(n*sizeof(int));// Cap
     phat bo nho dong
 93:
         NhapMang(a,n);
         printf("\n Mang vua nhap la:"); // Kiem
 94:
     tra xem nhap da
         XuatMang(a,n); // dung hay chua
 95:
 96:
         // Chen min nto vao vi tri k
 97:
         X=\min_{n \in \mathbb{N}} nt(a,n);
 98:
         if(X==-1)
 99:
         printf("\n Khong co so nto trong mang");
100:
         else
101:
          {
102:
103:
      // Chen nt min vao sau vi tri k tu ban phim
         printf("\n Gia tri Min Nto la: %d",X);
104:
105:
         printf("\n Nhap vi tri can chen: ");
106:
         scanf("%d", &vt);
107:
108:
         chen X(a,&n,vt,X);
         printf("\n Mang sau khi chen la:");
109:
110:
         XuatMang(a,n);
111:
112:
         ChenX sau nto(a,&n,1000);// Chen gia tri
     1000 sau cac so nto
113:
         printf("\n Mang sau khi chen la:");
114:
         XuatMang(a,n);
115:
116:
```

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```
117:
        free(a); // giai phong bo nho
118: return 1;
119: }
120:
```

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