```
1
    /* ilk cikti güncellendi */
    2
                                                                       */
 3
    /*HW05 HASAN MEN 131044009 part2.c
                                                                       */
 4
 5
       Olusturan : HASAN MEN 24-Mart-2015
 6
    /*
    /*Tanım
 7
 8
 9
    /*onceden tanimli array üzerinde max degeri bulmak,sayi aramak
10
    /*gibi türlü türlü islemeleri yapan programcık
11
    /*Girdiler:
12
       tum degeler onceden define edildi
    /*Ciktilar:
13
14
        fonksiyon sonuclari
15
     16
17
    #include <stdio.h>
18
19
20
    #define ARRAYSPACE 10
                             /* maximum array boyutum */
21
22
    /* arrayde arama yapmak icin yeni turler
    /* O'dan 9'a kadar yerleri kelimelerle berlirtmemizi saglar */
23
24
    typedef enum {FALSE=0,TRUE=1} bool;
25
26
     /* fonskiyon prototipleri
    int max_array(int array[], int n);
27
28
    int second_max_array(int array[], int n);
    int sum_all_array (int array[], int n);
29
30
    int count_array(int array[], int n, int value);
31
    bool search_array (int array[], int n, int value);
32
33
34
    int
35
    main()
36
37
         /* ana fonksiyon baslangici */
         int array[]={5,12,18,5,6,12,32,1,2,12}; /* 10elemanli array */
38
39
                             /* sayaclarımız */
         int j,i,zero;
40
        int num1=1, num2=2, num3=7;
                                     /* arrayda aranacak numaralar
41
         /* degiskenlerin sonu */
42
43
44
         printf("+++++++++++++++\n");
45
46
        printf("My array is => ");
47
48
         /* arrayin ekrana basilmasi */
49
         for(j=0;j<ARRAYSPACE;j++)</pre>
50
         {
51
             printf("%d ",array[j]);
52
         }
53
54
         /* fonksiyonlardan gelen bilgilere gore ekrana degerlerin basilmasi */
55
         printf("\n+++++++++++\n");
56
         printf("Maximum array is %d\n"
                                         ,max_array(array,ARRAYSPACE));
        57
        printf("Maximum second array is %d\n",second_max_array(array,ARRAYSPACE));
58
        printf("+++++++++++++\n");
59
         printf("Sum of all array is %d\n",sum_all_array(array,ARRAYSPACE));
60
         printf("++++++++++++++\n");
61
        printf("Count of value %2d is %2d\n",num1,count_array(array,ARRAYSPACE,num1));
printf("Count of value %2d is %2d\n",num2,count_array(array,ARRAYSPACE,num2));
printf("Count of value %2d is %2d\n",num3,count_array(array,ARRAYSPACE,num3));
62
63
64
        printf("++++++++++++++++++++++++);
65
66
67
         zero=0; /* eger sayi bulunmaz ise sayac ile hata dondurecez*/
         for(i=0;i<ARRAYSPACE;i++)</pre>
68
69
         {
70
             if(search_array(array,i,num1))
71
             {
                 printf("%d is at [%d]\n",num1,i);
72
```

```
73
                  i=ARRAYSPACE;
                                   /* eger bulunursa donguden kacis saglar */
74
              /* fonksiyon false return ederse sayac artacak */
75
              else if(!search_array(array,i,num1))
76
77
              {
78
                  zero++;
79
                   /*dongu sonunda bulunmadiysa hata verir*/
                  if(zero==ARRAYSPACE)
80
81
                      printf("Couldn't find %d in array\n",num1);
82
              }
83
84
85
          zero=0;/* eger sayi bulunmaz ise sayac ile hata dondurecez*/
          for(i=0;i<ARRAYSPACE;i++)</pre>
86
87
88
89
              if(search_array(array,i,num2))
90
                  printf("%d is at [%d]\n",num2,i);
91
                                  /* eger bulunursa donguden kacis saglar */
92
                  i=ARRAYSPACE;
93
              /* fonksiyon false return ederse sayac artacak */
94
              else if(!search_array(array,i,num2))
95
96
              {
97
                  zero++;
98
                   /*dongu sonunda bulunmadiysa hata verir*/
99
                  if(zero==ARRAYSPACE)
                       printf("Couldn't find %d in array\n",num2);
100
101
              }
102
          }
103
104
          zero=0; /* eger sayi bulunmaz ise sayac ile hata dondurecez*/
105
          for(i=0;i<ARRAYSPACE;i++)</pre>
106
107
              if(search_array(array,i,num3))
108
              {
109
                  printf("%d is at [%d]\n",num3,i);
                                   /* eger bulunursa donguden kacis saglar */
                  i=ARRAYSPACE;
110
111
112
              /* fonksiyon false return ederse sayac artacak */
113
              else if(!search_array(array,i,num3))
114
115
                  zero++:
                  /*dongu sonunda bulunmadiysa hata verir*/
116
117
                  if(zero==ARRAYSPACE)
                       printf("Couldn't find %d in array\n",num3);
118
119
              }
120
121
          return 0;
          /* ana fonksiyonun sonu */
122
123
     }
124
     /* arraydeki tum degerleri tarayarak en buyuk olanini return eder*/
125
126
     int max_array(int array[], int n)
127
     {
128
          int i,max=0;
129
          for(i=0;i<n;i++)</pre>
130
              if(array[i]>=max)
131
132
                  max=array[i];
133
134
          return max;
135
     }
136
     /* tum degerleri arayarak 2.en buyuk degeri bulur ve return eder*/
137
138
     int second_max_array(int array[], int n)
139
     {
          int i,second_max=0;
140
141
          for(i=0;i<n;i++)</pre>
142
143
          {
              if(array[i]>=second_max && array[i]<max_array(array,n))</pre>
144
```

```
145
                   second_max=array[i];
146
          }
147
          return second_max;
     }
148
149
150
     int sum_all_array (int array[], int n)
151
          int i,sum=0;
152
          for(i=0;i<n;i++)</pre>
153
154
155
                   sum+=array[i];
          }
156
157
          return sum;
158
     }
159
     /* aranan degerin arrayde kac defa bulundugunu return eder */
160
     int count_array(int array[], int n, int value)
161
162
      {
          int i,counter=0;
163
          for(i=0;i<n;i++)</pre>
164
165
          {
               if(value==array[i])
166
                   counter++;
167
168
169
          return counter;
     }
170
171
     /* arrayde elemanları arar*/
172
173
     bool search_array (int array[], int n, int value)
174
175
176
          int i;
177
          for(i=0;i<=n;i++)</pre>
178
179
180
               if(array[i]==value)
                   return TRUE;
181
182
183
          return FALSE;
184
     }
185
186
          HW05_HASAN_MEN_131044009_part2.c
                                                           */
                                                  sonu
```