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1  /*Bai 1:
2  Chuong trinh nhap vao 1 chuoi ky tu.
3  ->In ra ma ascii cua tung ky tu trong chuoi
4  */
5  #include <stdio.h>
6  #include <conio.h>
7  #include <string.h>
8  #include <stdlib.h>
9
10 void main()
11 {
12     //Khoi tao vung nho 100 byte de chua chuoi ki tu
13     char *s = (char*) malloc(sizeof(char)*100);
14     int i;
15     int l;    //do dai cua chuoi ky tu
16     clrscr();
17     printf("\nNhap chuoi ky tu:");
18     gets(s);
19     l = strlen(s); //Ham lay do dai cua chuoi
20     for(i = 0; i < l; i++)
21         printf("\nMa Ascii cua ky tu %c la: %d",*(s+i),*(s+i));
22     getch();
23 }
24 /*****
25 *****/
26 /*Bai 2:
27 Chuong trinh nhap vao 1 chuoi ky tu tu ban phim
28 -> Xuat ra chuoi dao nguoc cua chuoi ky tu tren
29 */
30 #include <stdio.h>
31 #include <conio.h>
32 #include <string.h>
33 #include <stdlib.h>
34
35 void main()
36 {
37     //Khoi tao vung nho 100 byte de chua chuoi ky tu
38     char *s = (char*) malloc(sizeof(char)*100);
39     int i;
40     int l;    //do dai cua chuoi ky tu
41     clrscr();
42     printf("\nNhap chuoi ky tu:");
43     gets(s);
44     l = strlen(s); //Ham lay do dai cua chuoi
45     printf("\nChuoi dao nguoc la:");
46     for(i = l-1; i >= 0; i--) //di tu cuoi chuoi ->in nguoc lai phia truoc
47         printf("%c",*(s+i));
48     getch();
49 }
50 /*****
51 *****/
52 /*Bai 3:
53 Chuong trinh nhap vao mot chuoi ky tu.
54 ->Kiem tra chuoi do co doi xung hay khong.
55 */
56 #include <stdio.h>

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57 #include <conio.h>
58 #include <string.h>
59 #include <stdlib.h>
60 //Ham kiem tra chuoi doi xung, dau vao la chuoi s
61 //Tra ve 0: neu ko doi xung nguoc lai tra ve 1
62 int KiemTraDoiXung(char *s)
63 {
64     int i;
65     int l = strlen(s);
66     for(i = 0; i < l/2; i++) //Chay tu dau den giua mang
67         if(*(s+i) != *(s+l-1-i))//So sanh phan tu dau tien voi pt cuoi cung
68             return 0; //mang khong doi xung
69     return 1; //mang doi xung
70 }
71 void main()
72 {
73     //Khoi tao vung nho 100 byte de chua chuoi ky tu
74     char *s = (char*) malloc(sizeof(char)*100);
75     int i;
76     int l; //do dai cua chuoi ky tu
77     clrscr();
78     printf("\nNhap chuoi ky tu:");
79     gets(s);
80     if(KiemTraDoiXung(s) == 0)
81         printf("\nMang khong doi xung !");
82     else
83         printf("\nMang doi xung !");
84     getch();
85 }
86 /*****
87 *****/
88 /*Bai 4:
89 Chuong trinh nhap vao mot chuoi ky tu.
90 ->Dem so lan xuat hien cua moi loai ky tu trong chuoi.
91 */
92 #include <stdio.h>
93 #include <conio.h>
94 #include <string.h>
95 #include <stdlib.h>
96 //Ham dem so lan xuat hien cua 1 ky tu trong chuoi
97 //Ket qua tra ve la so lan xuat hien
98 int DemSoLanXH(char *s, char c) //c la ky tu can kiem tra
99 {
100     int i;
101     int l = strlen(s); //do dai cua chuoi ky tu
102     int count = 0; //So lan xuat hien cua ky tu trong chuoi
103     for(i = 0; i < l; i++)
104         if(c == *(s+i))
105             count++;
106     return count;
107 }
108 //Ham main
109 void main()
110 {
111     //Khoi tao vung nho 100 byte de chua chuoi ky tu
112     char *s = (char*) malloc(sizeof(char)*100);

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113     int i;
114     int l;    //do dai cua chuoi ky tu
115     clrscr();
116     printf("\nNhap chuoi ky tu:");
117     gets(s);
118     l = strlen(s);
119     if(l == 0)//chuoi rong
120         printf("\nChuoi rong !");
121     else
122         for(i = 0; i < l; i++)
123         {
124             printf("\nSo lan xuat hien cua ky tu %c trong chuoi la: %d",*(s+i), DemSoLanXH(
125                 s,*(s+i)));
126         }
127     getch();
128 }
129 /*****
130 *****/
131 /*Bai 5:
132 Chuong trinh nhap vao 1 chuoi ky tu
133 -> In ra man hinh tu ben trai nhat va phan con lai cua chuoi
134 -> In ra man hinh tu ben phai nhat va phan con lai cua chuoi
135 */
136 #include <stdio.h>
137 #include <conio.h>
138 #include <string.h>
139 #include <stdlib.h>
140 //Khai bao nguyen mau ham
141 void XuatTraiNhat(char *s, int x);
142 void XuatPhaiNhat(char *s, int x);
143
144 //Ham main
145 void main()
146 {
147     //Khoi tao vung nho 100 byte de chua chuoi ky tu
148     char *s = (char*) malloc(sizeof(char)*100);
149     int i,j;
150     int x,y;
151     int l;    //do dai cua chuoi ky tu
152     clrscr();
153     printf("\nNhap chuoi ky tu:");
154     gets(s);
155     l = strlen(s);
156     for(i = 0; i < l; i++)
157         if(*(s+i) == ' ')
158         {
159             x = i;
160             break;
161         }
162
163     for(j = l-1; j >= 0; j--)
164         if(*(s+j) == ' ')
165         {
166             y = j;
167             break;

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168     }
169     XuatTraiNhat(s,x);
170     XuatPhaiNhat(s,y);
171     getch();
172 }
173
174 void XuatTraiNhat(char *s, int x)
175 {
176     int l = strlen(s);
177     int i;
178     printf("\n\Phan trai nhat:");
179     for(i = 0; i < x; i++)
180         printf("%c",*(s+i));
181
182     printf("\nPhan con lai:");
183     for(i = x+1; i < l; i++)
184         printf("%c",*(s+i));
185 }
186
187 void XuatPhaiNhat(char *s, int y)
188 {
189     int l = strlen(s);
190     int i;
191     printf("\n\Phan phai nhat:");
192     for(i = y+1; i < l; i++)
193         printf("%c",*(s+i));
194
195     printf("\nPhan con lai:");
196     for(i = 0; i < y; i++)
197         printf("%c",*(s+i));
198 }
199 /*****
200 *****/
201 /*Bai 6:
202 Chuong trinh nhap vao 1 chuoi ky tu.
203 ->In moi tu 1 dong
204 */
205 #include <stdio.h>
206 #include <conio.h>
207 #include <string.h>
208 #include <stdlib.h>
209
210 void main()
211 {
212     //Khoi tao vung nho 100 byte de chua chuoi ky tu
213     char *s = (char*) malloc(sizeof(char)*100);
214     int i;
215     int l;    //do dai cua chuoi ky tu
216     clrscr();
217     printf("\nNhap chuoi ky tu:");
218     gets(s);
219     l = strlen(s); //Ham lay do dai cua chuoi
220     printf("\nKet qua:\n");
221     for(i = 0; i < l; i++)    //di tu cuoi chuoi ->in nguoc lai phia truoc
222         if(*(s+i) == ' ')
223             printf("\n");

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224         else
225             printf("%c",*(s+i));
226     getch();
227 }
228 /*****
229 *****/
230 /*Bai 10:
231 Chuong trinh nhap vao ho va ten cua 1 nguoi
232 ->Cat bo cac khoang trang khong can thiet
233 ->In ra ten cua nguoi do
234 */
235 #include <stdio.h>
236 #include <conio.h>
237 #include <string.h>
238 #include <stdlib.h>
239 //Ham xoa khoang trang tu vi tri x
240 int XoaKhoangTrangX(char *s, int x)
241 {
242     int i;
243     for(i = x; i < strlen(s)-1; i++)
244     {
245         *(s+i) = *(s+i+1);
246     }
247 }
248 }
249 //Ham xoa bo khoang trang trong chuoi
250 int XoaKhoangTrang(char *s)
251 {
252     int i,j;
253     int x=strlen(s); //vi tri khoang trang hien tai
254     //truong hop chuoi khong co du lieu
255     if(strlen(s) == 0)
256         return 0;
257     for(i = 0; i < strlen(s); i++)
258     {
259         //truong hop co khoang trang o dau chuoi
260         if(*(s+0) == ' ')
261         {
262             x = 0; //vi tri dau tien trong chuoi->xoa di
263             XoaKhoangTrangX(s,x);
264             *(s+strlen(s)-1) = NULL; //Xoa phan tu cuoi cung cua mang
265             i--;
266         }
267         else //khoang trang giua nhung tu
268             if(*(s+i) == ' ' && *(s+i+1) == ' ') //co khoang trang can xoa
269             {
270                 x = i+1;
271                 XoaKhoangTrangX(s,x);
272                 *(s+strlen(s)-1) = NULL; //Xoa noi dung tai o nho
273                 i--;
274             }
275     }
276 }
277 void main()
278 {
279     //Khoi tao vung nho 100 byte de chua chuoi ky tu

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280     char *s = (char*) malloc(sizeof(char)*100);
281     int i;
282     int l;    //do dai cua chuoi ky tu
283     clrscr();
284     printf("\nNhap ho va ten:");
285     gets(s);
286     l = strlen(s); //Ham lay do dai cua chuoi
287     printf("\nMang sau khi xoa cac khoang trang thua:");
288     XoaKhoangTrang(s);
289     puts(s);
290     getch();
291 }
292
```