**CASO PRÁCTICO:**

**b)** Realizar una función  void ejercicio(unsigned char trama[]){…}

Debe analizar la tramas y en caso de cumplir con los casos definidos en el enunciado del ejercicio imprimir los datos solicitados así como el número de trama (iniciando en Trama 0). Si no concuerda con ninguna de las tramas solicitadas no imprimir nada

1.-  una trama IP con opciones -ICMP – Imprimir las opciones en hexadecimal

2.- una trama RNR de respuesta—devolver el valor de N(r) en decimal (considerar modo extendido)

3.- La trama que sirve para establecer una comunicación orientada a conexión, imprimir MAC origen.

4.- una trama UDP cuyo encapsulado IP no tenía opciones -- devolver el valor del Offset en decimal

5.- una trama LLC del tipo I -- devolver el N(R) y N(S) en decimal (considerar modo extendido)   
6.- una trama ARP ATM InvReply-- devolver el valor de la dirección de hardware destino en hexadecimal separada por puntos.

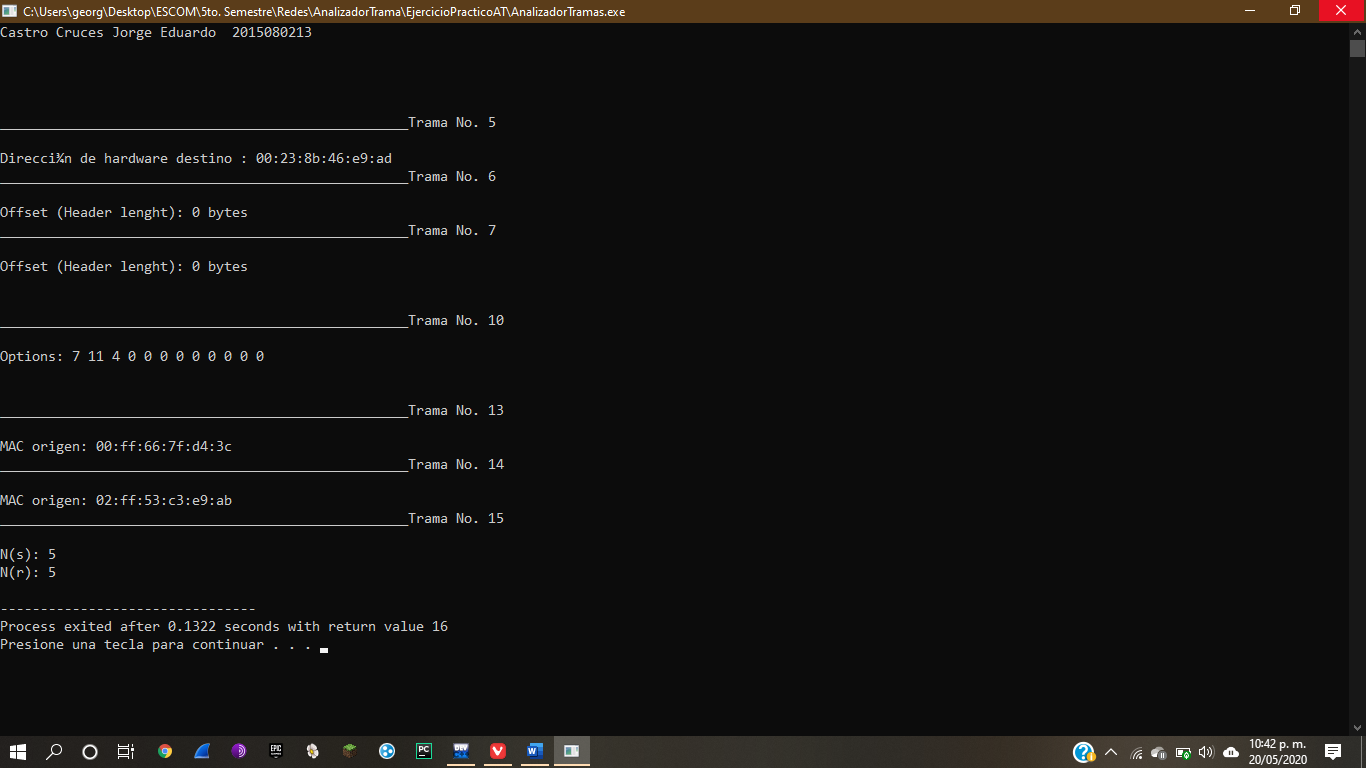
Al ejecutar su programa deberá imprimir su Nombre y Boleta así como el número de la trama en todos los casos (iniciando en Trama 0).

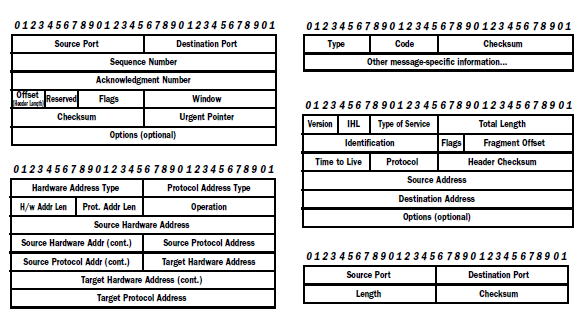
Incluya aquí una imagen de la salida de su programa para las tramas de prueba y todo su código editado en <https://highlight.hohli.com/> o alguna herramienta similar.

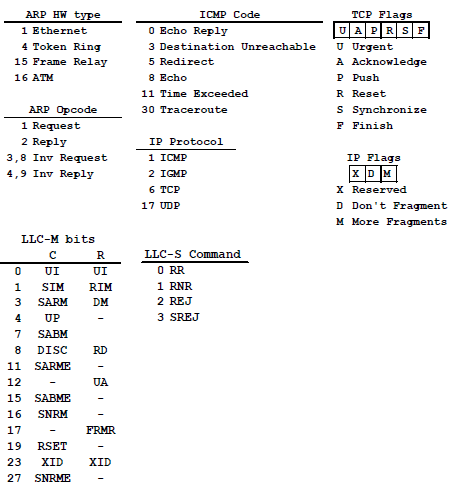
**Código**

1. #include<stdio.h>
3. void Ejercicio(unsigned char Trama[], int n){
4. int i;
5. **if((Trama[12]<<8 | Trama[13]) == 2048){**
6. *// Ejercicio 1*
7. if(Trama[23]==1){
8. if((Trama[14]&15)>5){
9. printf("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");
10. **printf("Trama No. %d\n\n", n);**
11. printf("Options: ");
12. for(i=34; i<14+((Trama[14]&15)\*4); i++) printf("%d ", Trama[i]);
13. }
14. }
15. ***// Ejercicio 3***
16. else if(Trama[23]==6){
17. if((((Trama[14]&15)\*4)+27)&2){
18. printf("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");
19. printf("Trama No. %d**\n\n**", n);
20. **printf("MAC origen: ");**
21. for(i=6; i<12; i++){
22. printf("%.2x", Trama[i]);
23. if(i!=11) printf(":");
24. }
25. **}**
26. }
27. *// Ejercicio 4*
28. else if(Trama[23]==17){
29. if((Trama[14]&15)==5){
30. **printf("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");**
31. printf("Trama No. %d**\n\n**", n);
32. printf("Offset (Header lenght): %d bytes", ((Trama[20] & 31)<<8 + Trama[21])\*8);
33. }
34. }
35. **}**
36. else if((Trama[12]<<8 | Trama[13]) < 1500){
37. *// Ejercicio 2*
38. if((Trama[16] & 3)==1){
39. if(((Trama[16]>>2) & 3)==1){
40. **printf("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");**
41. printf("Trama No. %d**\n\n**", n);
42. printf("**\n**N(r): %d", Trama[17]>>1);
43. }
44. }
45. ***// Ejercicio 5***
46. else if((((Trama[16]>>2) & 3)==0) || (((Trama[16]>>2) & 3)==2)){
47. printf("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");
48. printf("Trama No. %d**\n\n**", n);
49. printf("N(s): %d**\n**N(r): %d", Trama[16]>>1, Trama[17]>>1);
50. **}**
51. }
52. else if((Trama[12]<<8 | Trama[13]) == 2054){
53. *// Ejercicio 6*
54. if((Trama[20]<<8 | Trama[21]) == 4){
55. **printf("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");**
56. printf("Trama No. %d**\n\n**", n);
57. printf("Dirección de hardware destino : ");
58. for(i=32; i<38; i++){
59. printf("%.2x", Trama[i]);
60. **if(i!=37) printf(":");**
61. }
62. }
64. }
65. **printf("\n");**
66. }
68. void main(){
69. int i;
70. **unsigned char Trama[][125]={**
71. {
72. 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0x00, 0x23, */\* .......# \*/*
73. 0x8b, 0x46, 0xe9, 0xad, 0x08, 0x06, 0x00, 0x04, */\* .F...... \*/*
74. 0x08, 0x00, 0x06, 0x04, 0x00, 0x01, 0x00, 0x23, */\* .......# \*/*
75. **0x8b, 0x46, 0xe9, 0xad, 0x94, 0xcc, 0x39, 0xcb, */\* .F....9. \*/***
76. 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x94, 0xcc, */\* ........ \*/*
77. 0x39, 0xfe */\* 9. \*/*
78. },
79. {
80. **0x00, 0x23, 0x8b, 0x46, 0xe9, 0xad, 0x00, 0x1f, */\* .#.F.... \*/***
81. 0x45, 0x9d, 0x1e, 0xa2, 0x08, 0x06, 0x00, 0x01, */\* E....... \*/*
82. 0x08, 0x00, 0x06, 0x04, 0x00, 0x02, 0x00, 0x1f, */\* ........ \*/*
83. 0x45, 0x9d, 0x1e, 0xa2, 0x94, 0xcc, 0x39, 0xfe, */\* E.....9. \*/*
84. 0x00, 0x23, 0x8b, 0x46, 0xe9, 0xad, 0x94, 0xcc, */\* .#.F.... \*/*
85. **0x39, 0xcb, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* 9....... \*/***
86. 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* ........ \*/*
87. 0x00, 0x00, 0x00, 0x00 */\* .... \*/*
88. },
89. {
90. **0x00, 0x1f, 0x45, 0x9d, 0x1e, 0xa2, 0x00, 0x23, */\* ..E....# \*/***
91. 0x8b, 0x46, 0xe9, 0xad, 0x08, 0x00, 0x46, 0x00, */\* .F....F. \*/*
92. 0x80, 0x42, 0x04, 0x55, 0x34, 0x11, 0x80, 0x11, */\* .B.U4... \*/*
93. 0x6b, 0xf0, 0x94, 0xcc, 0x39, 0xcb, 0x94, 0xcc, */\* k...9... \*/*
94. 0x67, 0x02, 0xaa, 0xbb, 0xcc, 0xdd, 0x04, 0x0c, */\* g....... \*/*
95. **0x00, 0x35, 0x00, 0x2e, 0x85, 0x7c, 0xe2, 0x1a, */\* .5...|.. \*/***
96. 0x01, 0x00, 0x00, 0x01, 0x00, 0x00, 0x00, 0x00, */\* ........ \*/*
97. 0x00, 0x00, 0x03, 0x77, 0x77, 0x77, 0x03, 0x69, */\* ...www.i \*/*
98. 0x73, 0x63, 0x05, 0x65, 0x73, 0x63, 0x6f, 0x6d, */\* sc.escom \*/*
99. 0x03, 0x69, 0x70, 0x6e, 0x02, 0x6d, 0x78, 0x00, */\* .ipn.mx. \*/*
100. **0x00, 0x1c, 0x00, 0x01 */\* .... \*/***
101. },
102. {
103. 0x00, 0x02, 0xb3, 0x9c, 0xdf, 0x1b, 0x00, 0x02, */\* ........ \*/*
104. 0xb3, 0x9c, 0xae, 0xba, 0x00, 0x04, 0xf0, 0xf1, */\* ........ \*/*
105. **0x09, 0x8d, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* ........ \*/***
106. 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* ........ \*/*
107. 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* ........ \*/*
108. 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* ........ \*/*
109. 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* ........ \*/*
110. **0x00, 0x00, 0x00, 0x00, 0x00, 0x7c, 0x9b, 0x6d */\* .....|.m \*/***
111. },
112. {
113. 0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0x00, 0x23, */\* .......# \*/*
114. 0x8b, 0x46, 0xe9, 0xad, 0x08, 0x06, 0x00, 0x10, */\* .F...... \*/*
115. **0x08, 0x00, 0x06, 0x04, 0x00, 0x03, 0x00, 0x23, */\* .......# \*/***
116. 0x8b, 0x46, 0xe9, 0xad, 0x94, 0xcc, 0x39, 0xcb, */\* .F....9. \*/*
117. 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x94, 0xcc, */\* ........ \*/*
118. 0x3a, 0xe1 */\* :. \*/*
119. },
120. **{**
121. 0x00, 0x23, 0x8b, 0x46, 0xe9, 0xad, 0x00, 0x1f, */\* .#.F.... \*/*
122. 0x45, 0x9d, 0x1e, 0xa2, 0x08, 0x06, 0x00, 0x10, */\* E....... \*/*
123. 0x08, 0x00, 0x06, 0x04, 0x00, 0x04, 0x00, 0x1f, */\* ........ \*/*
124. 0x45, 0x9d, 0x1e, 0xa2, 0x94, 0xcc, 0x3a, 0xe1, */\* E.....:. \*/*
125. **0x00, 0x23, 0x8b, 0x46, 0xe9, 0xad, 0x94, 0xcc, */\* .#.F.... \*/***
126. 0x39, 0xcb, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* 9....... \*/*
127. 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* ........ \*/*
128. 0x00, 0x00, 0x00, 0x00 */\* .... \*/*
129. },
130. **{**
131. 0x00, 0x23, 0x8b, 0x46, 0xe9, 0xad, 0x00, 0x1f, */\* .#.F.... \*/*
132. 0x45, 0x9d, 0x1e, 0xa2, 0x08, 0x00, 0x45, 0x00, */\* E.....E. \*/*
133. 0x00, 0x6f, 0x90, 0x30, 0x40, 0x00, 0xfb, 0x11, */\* .o.0@... \*/*
134. 0x24, 0xe7, 0x94, 0xcc, 0x67, 0x02, 0x94, 0xcc, */\* $...g... \*/*
135. **0x39, 0xcb, 0x00, 0x35, 0x04, 0x0c, 0x00, 0x5b, */\* 9..5...[ \*/***
136. 0xe8, 0x60, 0xe2, 0x1a, 0x85, 0x80, 0x00, 0x01, */\* .`...... \*/*
137. 0x00, 0x00, 0x00, 0x01, 0x00, 0x00, 0x03, 0x77, */\* .......w \*/*
138. 0x77, 0x77, 0x03, 0x69, 0x73, 0x63, 0x05, 0x65, */\* ww.isc.e \*/*
139. 0x73, 0x63, 0x6f, 0x6d, 0x03, 0x69, 0x70, 0x6e, */\* scom.ipn \*/*
140. **0x02, 0x6d, 0x78, 0x00, 0x00, 0x1c, 0x00, 0x01, */\* .mx..... \*/***
141. 0xc0, 0x14, 0x00, 0x06, 0x00, 0x01, 0x00, 0x00, */\* ........ \*/*
142. 0x0e, 0x10, 0x00, 0x21, 0x04, 0x64, 0x6e, 0x73, */\* ...!.dns \*/*
143. 0x31, 0xc0, 0x1a, 0x03, 0x74, 0x69, 0x63, 0xc0, */\* 1...tic. \*/*
144. 0x1a, 0x77, 0xec, 0xdf, 0x29, 0x00, 0x00, 0x2a, */\* .w..)..\* \*/*
145. **0x30, 0x00, 0x00, 0x0e, 0x10, 0x00, 0x12, 0x75, */\* 0......u \*/***
146. 0x00, 0x00, 0x00, 0x2a, 0x30 */\* ...\*0 \*/* *//6*
147. },
148. {
149. 0x00, 0x1f, 0x45, 0x9d, 0x1e, 0xa2, 0x00, 0x23, */\* ..E....# \*/*
150. **0x8b, 0x46, 0xe9, 0xad, 0x08, 0x00, 0x45, 0x00, */\* .F....E. \*/***
151. 0x00, 0x42, 0x04, 0x56, 0x00, 0x00, 0x80, 0x11, */\* .B.V.... \*/*
152. 0x6b, 0xef, 0x94, 0xcc, 0x39, 0xcb, 0x94, 0xcc, */\* k...9... \*/*
153. 0x67, 0x02, 0x04, 0x0c, 0x00, 0x35, 0x00, 0x2e, */\* g....5.. \*/*
154. 0xff, 0x87, 0x68, 0x2a, 0x01, 0x00, 0x00, 0x01, */\* ..h\*.... \*/*
155. **0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x03, 0x77, */\* .......w \*/***
156. 0x77, 0x77, 0x03, 0x69, 0x73, 0x63, 0x05, 0x65, */\* ww.isc.e \*/*
157. 0x73, 0x63, 0x6f, 0x6d, 0x03, 0x69, 0x70, 0x6e, */\* scom.ipn \*/*
158. 0x02, 0x6d, 0x78, 0x00, 0x00, 0x01, 0x00, 0x01 */\* .mx..... \*/*
159. },
160. **{**
161. 0x00, 0x1f, 0x45, 0x9d, 0x1e, 0xa2, 0x00, 0x23, */\* ..E....# \*/*
162. 0x8b, 0x46, 0xe9, 0xad, 0x08, 0x00, 0x45, 0x00, */\* .F....E. \*/*
163. 0x00, 0x3c, 0x04, 0x57, 0x00, 0x00, 0x80, 0x01, */\* .<.W.... \*/*
164. 0x98, 0x25, 0x94, 0xcc, 0x39, 0xcb, 0x94, 0xcc, */\* .%..9... \*/*
165. **0x3a, 0xe1, 0x08, 0x00, 0x49, 0x5c, 0x03, 0x00, */\* :...I\.. \*/***
166. 0x01, 0x00, 0x61, 0x62, 0x63, 0x64, 0x65, 0x66, */\* ..abcdef \*/*
167. 0x67, 0x68, 0x69, 0x6a, 0x6b, 0x6c, 0x6d, 0x6e, */\* ghijklmn \*/*
168. 0x6f, 0x70, 0x71, 0x72, 0x73, 0x74, 0x75, 0x76, */\* opqrstuv \*/*
169. 0x77, 0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, */\* wabcdefg \*/*
170. **0x68, 0x69 */\* hi \*/***
171. },
172. {
173. 0x00, 0x23, 0x8b, 0x46, 0xe9, 0xad, 0x00, 0x1f, */\* .#.F.... \*/*
174. 0x45, 0x9d, 0x1e, 0xa2, 0x08, 0x00, 0x45, 0x00, */\* E.....E. \*/*
175. **0x00, 0x3c, 0x01, 0xb5, 0x00, 0x00, 0x3f, 0x01, */\* .<....?. \*/***
176. 0xdb, 0xc7, 0x94, 0xcc, 0x3a, 0xe1, 0x94, 0xcc, */\* ....:... \*/*
177. 0x39, 0xcb, 0x00, 0x00, 0x51, 0x5c, 0x03, 0x00, */\* 9...Q\.. \*/*
178. 0x01, 0x00, 0x61, 0x62, 0x63, 0x64, 0x65, 0x66, */\* ..abcdef \*/*
179. 0x67, 0x68, 0x69, 0x6a, 0x6b, 0x6c, 0x6d, 0x6e, */\* ghijklmn \*/*
180. **0x6f, 0x70, 0x71, 0x72, 0x73, 0x74, 0x75, 0x76, */\* opqrstuv \*/***
181. 0x77, 0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, */\* wabcdefg \*/*
182. 0x68, 0x69 */\* hi \*/*
183. },
184. {
185. **0x00, 0x1f, 0x45, 0x9d, 0x1e, 0xa2, 0x00, 0x1c, */\* ..E..... \*/***
186. 0xc0, 0x7b, 0x35, 0xa1, 0x08, 0x00, 0x48, 0x00, */\* .{5...H. \*/*
187. 0x00, 0x48, 0x5c, 0x7d, 0x00, 0x00, 0x80, 0x01, */\* .H\}.... \*/*
188. 0x6c, 0x88, 0x94, 0xcc, 0x39, 0xc3, 0x94, 0xcc, */\* l...9... \*/*
189. 0x00, 0x49, 0x07, 0x0b, 0x04, 0x00, 0x00, 0x00, */\* .I...... \*/*
190. **0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x08, 0x00, */\* ........ \*/***
191. 0x3b, 0x5c, 0x02, 0x00, 0x10, 0x00, 0x61, 0x62, */\* ;\....ab \*/*
192. 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6a, */\* cdefghij \*/*
193. 0x6b, 0x6c, 0x6d, 0x6e, 0x6f, 0x70, 0x71, 0x72, */\* klmnopqr \*/*
194. 0x73, 0x74, 0x75, 0x76, 0x77, 0x61, 0x62, 0x63, */\* stuvwabc \*/*
195. **0x64, 0x65, 0x66, 0x67, 0x68, 0x69 */\* defghi \*/* *//10***
196. },
197. {
198. 0x00, 0x23, 0x8b, 0x46, 0xe9, 0xad, 0x00, 0x1f, */\* .#.F.... \*/*
199. 0x45, 0x9d, 0x1e, 0xa2, 0x80, 0x35, 0x00, 0x01, */\* E....5.. \*/*
200. **0x08, 0x00, 0x06, 0x04, 0x00, 0x03, 0x00, 0x1f, */\* ........ \*/***
201. 0x45, 0x9d, 0x1e, 0xa2, 0x94, 0xcc, 0x3a, 0xe1, */\* E.....:. \*/*
202. 0x00, 0x23, 0x8b, 0x46, 0xe9, 0xad, 0x94, 0xcc, */\* .#.F.... \*/*
203. 0x39, 0xcb, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* 9....... \*/*
204. 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* ........ \*/*
205. **0x00, 0x00, 0x00, 0x00, 0xd8, 0xee, 0xdf, 0xb0 */\* ........ \*/***
206. },
207. {
208. 0x00, 0x02, 0xb3, 0x9c, 0xae, 0xba, 0x00, 0x02, */\* ........ \*/*
209. 0xb3, 0x9c, 0xdf, 0x1b, 0x00, 0x03, 0xf0, 0xf0, */\* ........ \*/*
210. **0x7f, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* ........ \*/***
211. 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* ........ \*/*
212. 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* ........ \*/*
213. 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* ........ \*/*
214. 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* ........ \*/*
215. **0x00, 0x00, 0x00, 0x00, 0x43, 0x05, 0x90, 0x6d */\* ....C..m \*/***
216. },
217. {
218. 0x02, 0xff, 0x53, 0xc3, 0xe9, 0xab, 0x00, 0xff, */\* ..S..... \*/*
219. 0x66, 0x7f, 0xd4, 0x3c, 0x08, 0x00, 0x45, 0x00, */\* f..<..E. \*/*
220. **0x00, 0x30, 0x2c, 0x00, 0x40, 0x00, 0x80, 0x06, */\* .0,.@... \*/***
221. 0x4b, 0x74, 0xc0, 0xa8, 0x01, 0x02, 0xc0, 0xa8, */\* Kt...... \*/*
222. 0x01, 0x01, 0x04, 0x03, 0x00, 0x15, 0x00, 0x3b, */\* .......; \*/*
223. 0xcf, 0x44, 0x00, 0x00, 0x00, 0x00, 0x50, 0x20, */\* .D....p \*/*
224. 0x20, 0x00, 0x0c, 0x34, 0x00, 0x00, 0x02, 0x04, */\* ..4.... \*/*
225. **0x05, 0xb4, 0x01, 0x01, 0x04, 0x02 */\* ...... \*/***
226. },
227. {
228. 0x00, 0xff, 0x66, 0x7f, 0xd4, 0x3c, 0x02, 0xff, */\* ..f..<.. \*/*
229. 0x53, 0xc3, 0xe9, 0xab, 0x08, 0x00, 0x45, 0x00, */\* S.....E. \*/*
230. **0x00, 0x30, 0x05, 0xc4, 0x40, 0x00, 0x80, 0x06, */\* .0..@... \*/***
231. 0x71, 0xb0, 0xc0, 0xa8, 0x01, 0x01, 0xc0, 0xa8, */\* q....... \*/*
232. 0x01, 0x02, 0x00, 0x15, 0x04, 0x03, 0x21, 0x5d, */\* ......!] \*/*
233. 0x3a, 0x44, 0x00, 0x3b, 0xcf, 0x45, 0x70, 0x12, */\* :D.;.Ep. \*/*
234. 0x44, 0x70, 0x8c, 0x11, 0x00, 0x00, 0x02, 0x04, */\* Dp...... \*/*
235. **0x05, 0xb4, 0x01, 0x01, 0x04, 0x02 */\* ...... \*/***
236. },
237. {
238. 0x00, 0x02, 0xb3, 0x9c, 0xae, 0xba, 0x00, 0x02, */\* ........ \*/*
239. 0xb3, 0x9c, 0xdf, 0x1b, 0x00, 0x12, 0xf0, 0xf0, */\* ........ \*/*
240. **0x0a, 0x0b, 0x0e, 0x00, 0xff, 0xef, 0x14, 0x00, */\* ........ \*/***
241. 0x00, 0x00, 0x28, 0x00, 0x00, 0x00, 0x7f, 0x23, */\* ..(....# \*/*
242. 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* ........ \*/*
243. 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* ........ \*/*
244. 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, */\* ........ \*/*
245. **0x00, 0x00, 0x00, 0x00, 0x01, 0x99, 0x98, 0x6d */\* .......m \*/***
246. }};
247. printf("Castro Cruces Jorge Eduardo 2015080213");
248. int Tam=sizeof(Trama)/sizeof(Trama[0]);
249. for(i=0; i<Tam; i++) Ejercicio(Trama[i], i);
250. **}**

**Capturas de pantalla**







Tramas de prueba

{{

0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0x00, 0x23, /\* .......# \*/

0x8b, 0x46, 0xe9, 0xad, 0x08, 0x06, 0x00, 0x04, /\* .F...... \*/

0x08, 0x00, 0x06, 0x04, 0x00, 0x01, 0x00, 0x23, /\* .......# \*/

0x8b, 0x46, 0xe9, 0xad, 0x94, 0xcc, 0x39, 0xcb, /\* .F....9. \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x94, 0xcc, /\* ........ \*/

0x39, 0xfe /\* 9. \*/

},

{

0x00, 0x23, 0x8b, 0x46, 0xe9, 0xad, 0x00, 0x1f, /\* .#.F.... \*/

0x45, 0x9d, 0x1e, 0xa2, 0x08, 0x06, 0x00, 0x01, /\* E....... \*/

0x08, 0x00, 0x06, 0x04, 0x00, 0x02, 0x00, 0x1f, /\* ........ \*/

0x45, 0x9d, 0x1e, 0xa2, 0x94, 0xcc, 0x39, 0xfe, /\* E.....9. \*/

0x00, 0x23, 0x8b, 0x46, 0xe9, 0xad, 0x94, 0xcc, /\* .#.F.... \*/

0x39, 0xcb, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* 9....... \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* ........ \*/

0x00, 0x00, 0x00, 0x00 /\* .... \*/

},

{

0x00, 0x1f, 0x45, 0x9d, 0x1e, 0xa2, 0x00, 0x23, /\* ..E....# \*/

0x8b, 0x46, 0xe9, 0xad, 0x08, 0x00, 0x46, 0x00, /\* .F....F. \*/

0x80, 0x42, 0x04, 0x55, 0x34, 0x11, 0x80, 0x11, /\* .B.U4... \*/

0x6b, 0xf0, 0x94, 0xcc, 0x39, 0xcb, 0x94, 0xcc, /\* k...9... \*/

0x67, 0x02, 0xaa, 0xbb, 0xcc, 0xdd, 0x04, 0x0c, /\* g....... \*/

0x00, 0x35, 0x00, 0x2e, 0x85, 0x7c, 0xe2, 0x1a, /\* .5...|.. \*/

0x01, 0x00, 0x00, 0x01, 0x00, 0x00, 0x00, 0x00, /\* ........ \*/

0x00, 0x00, 0x03, 0x77, 0x77, 0x77, 0x03, 0x69, /\* ...www.i \*/

0x73, 0x63, 0x05, 0x65, 0x73, 0x63, 0x6f, 0x6d, /\* sc.escom \*/

0x03, 0x69, 0x70, 0x6e, 0x02, 0x6d, 0x78, 0x00, /\* .ipn.mx. \*/

0x00, 0x1c, 0x00, 0x01 /\* .... \*/

},

{

0x00, 0x02, 0xb3, 0x9c, 0xdf, 0x1b, 0x00, 0x02, /\* ........ \*/

0xb3, 0x9c, 0xae, 0xba, 0x00, 0x04, 0xf0, 0xf1, /\* ........ \*/

0x09, 0x8d, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* ........ \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* ........ \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* ........ \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* ........ \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* ........ \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x7c, 0x9b, 0x6d /\* .....|.m \*/

},

{

0xff, 0xff, 0xff, 0xff, 0xff, 0xff, 0x00, 0x23, /\* .......# \*/

0x8b, 0x46, 0xe9, 0xad, 0x08, 0x06, 0x00, 0x10, /\* .F...... \*/

0x08, 0x00, 0x06, 0x04, 0x00, 0x03, 0x00, 0x23, /\* .......# \*/

0x8b, 0x46, 0xe9, 0xad, 0x94, 0xcc, 0x39, 0xcb, /\* .F....9. \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x94, 0xcc, /\* ........ \*/

0x3a, 0xe1 /\* :. \*/

},

{

0x00, 0x23, 0x8b, 0x46, 0xe9, 0xad, 0x00, 0x1f, /\* .#.F.... \*/

0x45, 0x9d, 0x1e, 0xa2, 0x08, 0x06, 0x00, 0x10, /\* E....... \*/

0x08, 0x00, 0x06, 0x04, 0x00, 0x04, 0x00, 0x1f, /\* ........ \*/

0x45, 0x9d, 0x1e, 0xa2, 0x94, 0xcc, 0x3a, 0xe1, /\* E.....:. \*/

0x00, 0x23, 0x8b, 0x46, 0xe9, 0xad, 0x94, 0xcc, /\* .#.F.... \*/

0x39, 0xcb, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* 9....... \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* ........ \*/

0x00, 0x00, 0x00, 0x00 /\* .... \*/

},

{

0x00, 0x23, 0x8b, 0x46, 0xe9, 0xad, 0x00, 0x1f, /\* .#.F.... \*/

0x45, 0x9d, 0x1e, 0xa2, 0x08, 0x00, 0x45, 0x00, /\* E.....E. \*/

0x00, 0x6f, 0x90, 0x30, 0x40, 0x00, 0xfb, 0x11, /\* .o.0@... \*/

0x24, 0xe7, 0x94, 0xcc, 0x67, 0x02, 0x94, 0xcc, /\* $...g... \*/

0x39, 0xcb, 0x00, 0x35, 0x04, 0x0c, 0x00, 0x5b, /\* 9..5...[ \*/

0xe8, 0x60, 0xe2, 0x1a, 0x85, 0x80, 0x00, 0x01, /\* .`...... \*/

0x00, 0x00, 0x00, 0x01, 0x00, 0x00, 0x03, 0x77, /\* .......w \*/

0x77, 0x77, 0x03, 0x69, 0x73, 0x63, 0x05, 0x65, /\* ww.isc.e \*/

0x73, 0x63, 0x6f, 0x6d, 0x03, 0x69, 0x70, 0x6e, /\* scom.ipn \*/

0x02, 0x6d, 0x78, 0x00, 0x00, 0x1c, 0x00, 0x01, /\* .mx..... \*/

0xc0, 0x14, 0x00, 0x06, 0x00, 0x01, 0x00, 0x00, /\* ........ \*/

0x0e, 0x10, 0x00, 0x21, 0x04, 0x64, 0x6e, 0x73, /\* ...!.dns \*/

0x31, 0xc0, 0x1a, 0x03, 0x74, 0x69, 0x63, 0xc0, /\* 1...tic. \*/

0x1a, 0x77, 0xec, 0xdf, 0x29, 0x00, 0x00, 0x2a, /\* .w..)..\* \*/

0x30, 0x00, 0x00, 0x0e, 0x10, 0x00, 0x12, 0x75, /\* 0......u \*/

0x00, 0x00, 0x00, 0x2a, 0x30 /\* ...\*0 \*/

},

{

0x00, 0x1f, 0x45, 0x9d, 0x1e, 0xa2, 0x00, 0x23, /\* ..E....# \*/

0x8b, 0x46, 0xe9, 0xad, 0x08, 0x00, 0x45, 0x00, /\* .F....E. \*/

0x00, 0x42, 0x04, 0x56, 0x00, 0x00, 0x80, 0x11, /\* .B.V.... \*/

0x6b, 0xef, 0x94, 0xcc, 0x39, 0xcb, 0x94, 0xcc, /\* k...9... \*/

0x67, 0x02, 0x04, 0x0c, 0x00, 0x35, 0x00, 0x2e, /\* g....5.. \*/

0xff, 0x87, 0x68, 0x2a, 0x01, 0x00, 0x00, 0x01, /\* ..h\*.... \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x03, 0x77, /\* .......w \*/

0x77, 0x77, 0x03, 0x69, 0x73, 0x63, 0x05, 0x65, /\* ww.isc.e \*/

0x73, 0x63, 0x6f, 0x6d, 0x03, 0x69, 0x70, 0x6e, /\* scom.ipn \*/

0x02, 0x6d, 0x78, 0x00, 0x00, 0x01, 0x00, 0x01 /\* .mx..... \*/

},

{

0x00, 0x1f, 0x45, 0x9d, 0x1e, 0xa2, 0x00, 0x23, /\* ..E....# \*/

0x8b, 0x46, 0xe9, 0xad, 0x08, 0x00, 0x45, 0x00, /\* .F....E. \*/

0x00, 0x3c, 0x04, 0x57, 0x00, 0x00, 0x80, 0x01, /\* .<.W.... \*/

0x98, 0x25, 0x94, 0xcc, 0x39, 0xcb, 0x94, 0xcc, /\* .%..9... \*/

0x3a, 0xe1, 0x08, 0x00, 0x49, 0x5c, 0x03, 0x00, /\* :...I\.. \*/

0x01, 0x00, 0x61, 0x62, 0x63, 0x64, 0x65, 0x66, /\* ..abcdef \*/

0x67, 0x68, 0x69, 0x6a, 0x6b, 0x6c, 0x6d, 0x6e, /\* ghijklmn \*/

0x6f, 0x70, 0x71, 0x72, 0x73, 0x74, 0x75, 0x76, /\* opqrstuv \*/

0x77, 0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, /\* wabcdefg \*/

0x68, 0x69 /\* hi \*/

},

{

0x00, 0x23, 0x8b, 0x46, 0xe9, 0xad, 0x00, 0x1f, /\* .#.F.... \*/

0x45, 0x9d, 0x1e, 0xa2, 0x08, 0x00, 0x45, 0x00, /\* E.....E. \*/

0x00, 0x3c, 0x01, 0xb5, 0x00, 0x00, 0x3f, 0x01, /\* .<....?. \*/

0xdb, 0xc7, 0x94, 0xcc, 0x3a, 0xe1, 0x94, 0xcc, /\* ....:... \*/

0x39, 0xcb, 0x00, 0x00, 0x51, 0x5c, 0x03, 0x00, /\* 9...Q\.. \*/

0x01, 0x00, 0x61, 0x62, 0x63, 0x64, 0x65, 0x66, /\* ..abcdef \*/

0x67, 0x68, 0x69, 0x6a, 0x6b, 0x6c, 0x6d, 0x6e, /\* ghijklmn \*/

0x6f, 0x70, 0x71, 0x72, 0x73, 0x74, 0x75, 0x76, /\* opqrstuv \*/

0x77, 0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, /\* wabcdefg \*/

0x68, 0x69 /\* hi \*/

},

{

0x00, 0x1f, 0x45, 0x9d, 0x1e, 0xa2, 0x00, 0x1c, /\* ..E..... \*/

0xc0, 0x7b, 0x35, 0xa1, 0x08, 0x00, 0x48, 0x00, /\* .{5...H. \*/

0x00, 0x48, 0x5c, 0x7d, 0x00, 0x00, 0x80, 0x01, /\* .H\}.... \*/

0x6c, 0x88, 0x94, 0xcc, 0x39, 0xc3, 0x94, 0xcc, /\* l...9... \*/

0x00, 0x49, 0x07, 0x0b, 0x04, 0x00, 0x00, 0x00, /\* .I...... \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x08, 0x00, /\* ........ \*/

0x3b, 0x5c, 0x02, 0x00, 0x10, 0x00, 0x61, 0x62, /\* ;\....ab \*/

0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6a, /\* cdefghij \*/

0x6b, 0x6c, 0x6d, 0x6e, 0x6f, 0x70, 0x71, 0x72, /\* klmnopqr \*/

0x73, 0x74, 0x75, 0x76, 0x77, 0x61, 0x62, 0x63, /\* stuvwabc \*/

0x64, 0x65, 0x66, 0x67, 0x68, 0x69 /\* defghi \*/

},

{

0x00, 0x23, 0x8b, 0x46, 0xe9, 0xad, 0x00, 0x1f, /\* .#.F.... \*/

0x45, 0x9d, 0x1e, 0xa2, 0x80, 0x35, 0x00, 0x01, /\* E....5.. \*/

0x08, 0x00, 0x06, 0x04, 0x00, 0x03, 0x00, 0x1f, /\* ........ \*/

0x45, 0x9d, 0x1e, 0xa2, 0x94, 0xcc, 0x3a, 0xe1, /\* E.....:. \*/

0x00, 0x23, 0x8b, 0x46, 0xe9, 0xad, 0x94, 0xcc, /\* .#.F.... \*/

0x39, 0xcb, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* 9....... \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* ........ \*/

0x00, 0x00, 0x00, 0x00, 0xd8, 0xee, 0xdf, 0xb0 /\* ........ \*/

},

{

0x00, 0x02, 0xb3, 0x9c, 0xae, 0xba, 0x00, 0x02, /\* ........ \*/

0xb3, 0x9c, 0xdf, 0x1b, 0x00, 0x03, 0xf0, 0xf0, /\* ........ \*/

0x7f, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* ........ \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* ........ \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* ........ \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* ........ \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* ........ \*/

0x00, 0x00, 0x00, 0x00, 0x43, 0x05, 0x90, 0x6d /\* ....C..m \*/

},

{

0x02, 0xff, 0x53, 0xc3, 0xe9, 0xab, 0x00, 0xff, /\* ..S..... \*/

0x66, 0x7f, 0xd4, 0x3c, 0x08, 0x00, 0x45, 0x00, /\* f..<..E. \*/

0x00, 0x30, 0x2c, 0x00, 0x40, 0x00, 0x80, 0x06, /\* .0,.@... \*/

0x4b, 0x74, 0xc0, 0xa8, 0x01, 0x02, 0xc0, 0xa8, /\* Kt...... \*/

0x01, 0x01, 0x04, 0x03, 0x00, 0x15, 0x00, 0x3b, /\* .......; \*/

0xcf, 0x44, 0x00, 0x00, 0x00, 0x00, 0x50, 0x20, /\* .D....p \*/

0x20, 0x00, 0x0c, 0x34, 0x00, 0x00, 0x02, 0x04, /\* ..4.... \*/

0x05, 0xb4, 0x01, 0x01, 0x04, 0x02 /\* ...... \*/

},

{

0x00, 0xff, 0x66, 0x7f, 0xd4, 0x3c, 0x02, 0xff, /\* ..f..<.. \*/

0x53, 0xc3, 0xe9, 0xab, 0x08, 0x00, 0x45, 0x00, /\* S.....E. \*/

0x00, 0x30, 0x05, 0xc4, 0x40, 0x00, 0x80, 0x06, /\* .0..@... \*/

0x71, 0xb0, 0xc0, 0xa8, 0x01, 0x01, 0xc0, 0xa8, /\* q....... \*/

0x01, 0x02, 0x00, 0x15, 0x04, 0x03, 0x21, 0x5d, /\* ......!] \*/

0x3a, 0x44, 0x00, 0x3b, 0xcf, 0x45, 0x70, 0x12, /\* :D.;.Ep. \*/

0x44, 0x70, 0x8c, 0x11, 0x00, 0x00, 0x02, 0x04, /\* Dp...... \*/

0x05, 0xb4, 0x01, 0x01, 0x04, 0x02 /\* ...... \*/

},

{

0x00, 0x02, 0xb3, 0x9c, 0xae, 0xba, 0x00, 0x02, /\* ........ \*/

0xb3, 0x9c, 0xdf, 0x1b, 0x00, 0x12, 0xf0, 0xf0, /\* ........ \*/

0x0a, 0x0b, 0x0e, 0x00, 0xff, 0xef, 0x14, 0x00, /\* ........ \*/

0x00, 0x00, 0x28, 0x00, 0x00, 0x00, 0x7f, 0x23, /\* ..(....# \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* ........ \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* ........ \*/

0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, /\* ........ \*/

0x00, 0x00, 0x00, 0x00, 0x01, 0x99, 0x98, 0x6d /\* .......m \*/

}};