Destination Hardware Address	Source Hardware Address	Frame Type	Frame Data
6 Bytes	6 Bytes	2 Bytes	46 - 1500 Bytes

And given that a datagram is formatted as follows:

Byte				()				1		2	3			
bit	0	1	2	3	4	5	6	7	8 9 10 11 12 13 14 15	16 17 18	19 20 21 22 23	24 25 26 27 28 29 30 31			
0		Ver	sion)	Hea	der	Len	gth	Type Of Service		Total	Length			
4	Identification									Flags	Fragment Offset				
8				Т	ΓL				Туре	Header Checksum					
12		Source IP Address													
16		Destination IP Address													
Optional									IP Options (May Be Omitted)			Padding			
20		IP Payload Data													

AB	36	0A	10	79	E4	82	2C	FB	B4	08	DC	08	00	45	F6
00	72	1A	6B	34	57	EC	13	9F	71	DA	83	0C	3C	5A	51
9E	C3	3F	31	9F	3B	DE	E1	58	9D	2E	56	44	27	34	D1
2D	5E	FB	65	31	47	AA	D8	F0	89	59	50	0E	1E	C1	A9
5F	29	AC	2A	BA	97	A3	BD	0B	8D	36	B5	18	FA	C6	49
F8	8F	84	DC	AE	D5	19	C9	9C	01	65	47	A6	E7	EA	5A
EF	C7	42	14	56	BF	4B	92	39	16	CB	66	8B	02	E3	9A
4C	C9	D9	6B	E2	19	BB	75	4F	51	A0	84	36	BE	B2	4A

- a. Find the destination hardware address.
- b. Find the source hardware address.
- c. What type of frame is this?
- d. What is the Identification?
- e. What Flag(s) are set in the IP header?
- f. What is the fragment offset?
- g. What is the TTL count?
- h. What is the Header Checksum?
- i. Find the source IP address.
- j. What class is the source IP address?
- k. What is the network ID in the source IP address?
- 1. What is the host ID in the source IP address?
- m. Write the source IP address in dotted decimal notation.

- n. Find the destination IP address.
- o. What class is the destination IP address?
- p. What is the network ID in the destination IP address?
- q. What is the host ID in the destination IP address?
- r. Write the destination IP address in dotted decimal notation.
- s. If the IP header includes no options or padding, what are the first five bytes of the datagram data?
- t. Can this message be delivered directly by the source to the destination, or will it require routers to handle the message. Explain.

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7A	21	06	E9	EA	71	BE	8E	61	68	FD	D6	08	00	45	В9
00	72	AE	AD	30	29	2D	5F	97	46	8E	9D	7E	E1	СВ	D1
2C	DE	E0	37	86	48	D4	62	15	51	C8	E0	7D	29	2B	1C
E9	84	99	2F	BE	19	73	D8	D9	0A	F7	59	7E	DE	C1	BA
E4	3A	47	D0	62	6F	3E	B5	65	2F	F6	1D	FE	43	C9	93
BC	5B	BC	02	DF	59	89	1A	63	B0	8D	3C	9D	CD	6A	E1
0C	E3	7D	45	AC	DA	88	FC	15	95	3A	F6	E8	8C	87	81
BF	88	40	4C	32	В0	CC	B2	5B	E2	DE	E6	B1	A5	3D	AC

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BA	74	В6	5D	05	В7	11	AF	04	19	8C	CE	08	00	45	69
00	72	61	78	31	2F	7B	19	1C	FC	3F	FF	57	9F	D1	41
67	7F	BA	90	71	3F	DB	C5	A3	DF	01	09	2B	D7	1F	7B
D5	08	00	4C	10	EA	D9	60	2F	BD	28	95	20	DE	AA	AD
69	87	AD	В3	08	B4	14	60	C3	1E	98	D6	В0	3A	2B	1C
E9	24	05	84	04	D0	88	1A	BB	A7	96	E7	A9	78	BF	C3
7A	69	3A	EA	CA	F5	BC	43	76	В8	94	В3	A0	54	CA	DB
A3	A7	E9	DE	3A	1B	C5	50	93	43	7C	79	0A	CE	A9	41

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8D	67	D8	04	0F	E0	30	C6	89	4A	94	6C	08	00	45	46
00	72	DB	8E	22	37	75	В6	21	F2	AD	F1	2F	EF	50	25
56	C6	AD	F2	57	D6	90	92	9D	4F	FA	D9	D6	95	F3	43
20	51	1C	BF	2B	B1	DA	5F	В3	0A	8A	E1	EE	86	52	AB
79	08	D9	57	9F	01	D9	F4	7A	2D	48	DC	D7	19	E7	16
78	37	76	9A	08	56	69	66	0A	32	AE	8E	A3	3C	42	90
74	0F	A0	35	4A	01	0E	F9	60	58	84	3B	5F	75	19	CC
F9	FB	DD	D9	61	DF	F5	6B	C2	65	0C	66	E7	7F	A7	D3

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