

Your program will need to respond with a DNS reply packet that contains:

- a header section (same as in stage #5)
- a question section (**new in this stage**)
- an answer section (**new in this stage**)

Expected values for the question section:

Field	Expected value
Name	Mimic the domain name (as label sequence)
Type	1 encoded as a 2-byte big-endian int (corresponding to the "A" record type)
Class	1 encoded as a 2-byte big-endian int (corresponding to the "IN" record class)

Expected values for the answer section:

Field	Expected Value
Name	Mimic the domain name (as label sequence)
Type	1 encoded as a 2-byte big-endian int (corresponding to the "A" record type)
Class	1 encoded as a 2-byte big-endian int (corresponding to the "IN" record class)
TTL	Any value, encoded as a 4-byte big-endian int. For example: 60 .
Length	4 , encoded as a 2-byte big-endian int (corresponds to the length of the RDATA field)
Data	Any IP address, encoded as a 4-byte big-endian int. For example: \x08\x08\x08\x08 (that's 8.8.8.8 encoded as a 4-byte integer)

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