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# Write question section #BF2  Pending

Complete previous stages to gain access to this stage.

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## Your Task  Pending                                    MEDIUM

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In this stage, you'll extend your DNS server to respond with the "question" section, the second section of a DNS message.

## Question section structure

The question section contains a list of questions (usually just 1) that the sender wants to ask the receiver. This section is present in both query and reply packets.

Each question has the following structure:

- **Name**: A domain name, represented as a sequence of "labels" (more on this below)

- **Type**: 2-byte int; the type of record (1 for an A record, 5 for a CNAME record etc., full list **here**)

- **Class**: 2-byte int; usually set to  1  (full list **here**)

**Section 4.1.2** of the RFC covers the question section format in detail. **Section 3.2** has more details on Type and class.

## Domain name encoding

Domain names in DNS packets are encoded as a sequence of labels.

Labels are encoded as  `<length><content>` , where  `<length>`  is a single byte tha...

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