

# Homework, Week 3, part C

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This assignment uses the list you wrote previously. Write a function. Name it (`ask-question`). It will take as an argument a list of a question and answers, like this: (`"Who was the first president of the United States?"` (`"George Washington" "John Adams" "Thomas Jefferson" "Barack Obama"`)). It will ask the question and then list the answers, as before.

There are many ways to do this. My answer is below. I do not expect you to write this by yourself, because you have not had all you need. I do expect you to think about it, and write what you can in plain English as if a computer could understand it. Write down all the steps. This is very important. If you can't think through all the steps and write them in English, you cannot think through all the steps and write them in Lisp, or in any other language.

Listing 1: My function

```
1 ;;my function
2 (defun ask-question (item)
3   (format t "~%~a~%" (car item))
4   (list-answers (car (cdr item))))
```

I added this to the previous file, and named the new file `test-ques-answers.lisp`. Load the new file, and call the new `ask-question` function. I asked the same question several times, and you will notice that the order of the answers changed.

```
1 ;;my output
2 [41]> (load "test-ques-answers.lisp")
3 ;; Loading file test-ques-answers.lisp ...
4 ;; Loaded file test-ques-answers.lisp
5 T
6 [42]> a
7 ("Who was the first president of the United States?"
8  ("George Washington" "John Adams" "Thomas Jefferson" "Barack
   Obama"))
9 [43]> (ask-question a)
10
11 Who was the first president of the United States?
12   George Washington
13   Thomas Jefferson
14   John Adams
15   Barack Obama
```

16 NIL  
17 [44] > (ask-question a)  
18  
19 Who was the **first** president of the United States?  
20 John Adams  
21 George Washington  
22 Barack Obama  
23 Thomas Jefferson  
24 NIL  
25 [45] > (ask-question a)  
26  
27 Who was the **first** president of the United States?  
28 John Adams  
29 Barack Obama  
30 George Washington  
31 Thomas Jefferson  
32 NIL  
33 [46] > (ask-question a)  
34  
35 Who was the **first** president of the United States?  
36 George Washington  
37 John Adams  
38 Barack Obama  
39 Thomas Jefferson  
40 NIL  
41 [47] >