Quiz

Use the given template to write your program:

```
TITLE Flat Memory Program Template    (Template.asm)

; Program Description:
; Author:                        Creation Date:
; Modified by:                   Modification Date:

.686
.MODEL FLAT, STDCALL
.STACK

INCLUDE Irvine32.inc
.DATA
    ; (insert variables here)
.CODE
main PROC
    ; (insert executable instructions here)
    exit
main ENDP
    ; (insert additional procedures here)
END main
```

Question 1:

Suppose arr_1 is an array that holds the following values of 16-bit integers (150, 200, 250, 300)

1. Create this array with the correct data type.
2. Create a loop to:
    a. Move the unsigned value in arr_1 to a 32-bit register
    b. Modify each array element by adding 1
    c. Print the modified array element
    d. Use index addressing mode
    e. Display the register value during each iteration of the loop

Question 2:

Define var1 = AB12, var2 = CC22 . Both variables store data as 32-bit integers in hexadecimal format.

a) Define the variables using the correct data type and format.
b) Swap the values of var1 and var2
c) Inspect memory to display the values of var1 and var2 before and after the swap