1. Please implement the following steps with PUSH and POP in the .code section: (a) get values 1 and 2 into the stack; (b) save

values 2 and 1 in EAX and EBX	
.code	
main proc	
mov eax,	_;save value 1 in EAX
mov ebx,	_;save value 2 in EBX
push; go	et values 1 into the stack
push; go	et values 2 into the stack
pop;sav	e value 2 in EAX
pop;sav	e value 1 in EBX
invoke ExitProcess,0	
main endp	
end main	
	2 into the stack; and (2) save values 2, 4 and 6 in EAX (values can be overwritten in EAX) .code section. (assume: array WORD 2,4,6)
pushLoop: push array[loop pushLoop]; locate a proper index of array
;	configure ECX for popLoop
popLoop: pop loop popLoop	_; save values 2, 4 and 6 in EAX
invoke ExitProcess,0	

```
main endp
end main
3. Please predict the values in EDX in step @-@. (assume: arrayVariable DWORD 3h, 6h, 9h)
.code
main proc
       mov eax,0
       mov ecx,3
       mov edx, arrayVariable[0]----- ; EDX =
       mov edx, arrayVariable[1]-----①; EDX =
       mov edx, arrayVariable[2]----- ; EDX =
       mov edx, arrayVariable[3]-----3; EDX =
       pushLoop:
          push arrayVariable[_____]; proper index for DWORD
       loop pushLoop
       mov ecx, 3
       popLoop:
           pop eax
       loop popLoop
       invoke ExitProcess,0
 main endp
end main
4. Reverse String. Please fill out blank lines with proper instructions.
.data
aName BYTE "Assembly Language",0
.code
main PROC
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; Push th	ne name on the stack.
	mov ecx,; ecx = ?/Alternative to get a size
	mov esi,; initialize ESI
L1:	movzx eax,; get character
	push ; push on stack
	inc; update ESI
	Loop L1
; Pop the	e name from the stack, in reverse,
; and sto	re in the aName array.
	mov ecx,; configure ecx for loop L2 again
	mov esi,; configure esi for aName again
L2:	pop eax ; get character
	mov aName[esi],; store in string
	inc; update ESI
	Loop L2
; Display	y the name.
mai	n ENDP
END ma	ain
5. Please	e use two procedures (pushProc and popProc) to rewrite Q2.
.code	
main pro	oc
	mov eax,0
	mov ecx,3
; Main p	rogram control procedure.
; Calls: 1	pushProc and popProc.
	; call pushProc procedure
	mov ecx, 3
	: call popProc procedure

main ENDP
;
;
; Push values in array into stack
;pushLoop:
push array[(ecx *2) - 2]
loop pushLoop
;
;
; Pop each value one by one in EAX
;
popLoop:
pop eax
loop popLoop
end main