

File: myenv.s

```
section .text
global _start
_start:
    ; store environment variables on stack:
    ;     aaa=1234  bbb=5678  cccc=1234
    xor eax,eax          ; clear eax
    push eax              ; use 0 to terminate the string
    mov edx,"4***"
    shl edx,24
    shr edx,24
    push edx
    push "=123"
    push "cccc"
    push eax              ; use 0 to terminate the string
    push "5678"
    push "bbb="
    push eax              ; use 0 to terminate the string
    push "1234"
    push "abc="
    mov ebx,esp

    ; setup environment array envp[] on stack
    push eax              ; envp[3] = 0
    mov eax,ebx
    add eax,24
    push eax              ; envp[2]
    mov eax,ebx
    add eax,12
    push eax              ; envp[1]
    push ebx              ; envp[1]
    mov edx,esp           ; edx = address of environment array

    xor eax, eax          ; clear eax
    push eax              ; use 0 to terminate the string
    push "/env"
    push "/bin"
    push "/usr"
    mov ebx, esp           ; ebx = address of "/usr/bin/env"

    ; setup argument array argv[] on stack
    push eax              ; argv[1] = 0
    push ebx              ; argv[0] points "/usr/bin/env"
    mov ecx, esp           ; ecx = address of argv[]

    ; invoke execve()
    xor eax, eax          ; eax = 0x00000000
    mov al, 0x0b            ; eax = 0x0000000b
    int 0x80
```

Setup for `execve()` to execute the command: `/usr/bin/env` with environment variables

