

-> i used the workspace

-> the above code combined w the individual codes were saved as asm.S and the one-liner code was run in the terminal to obtain the flags

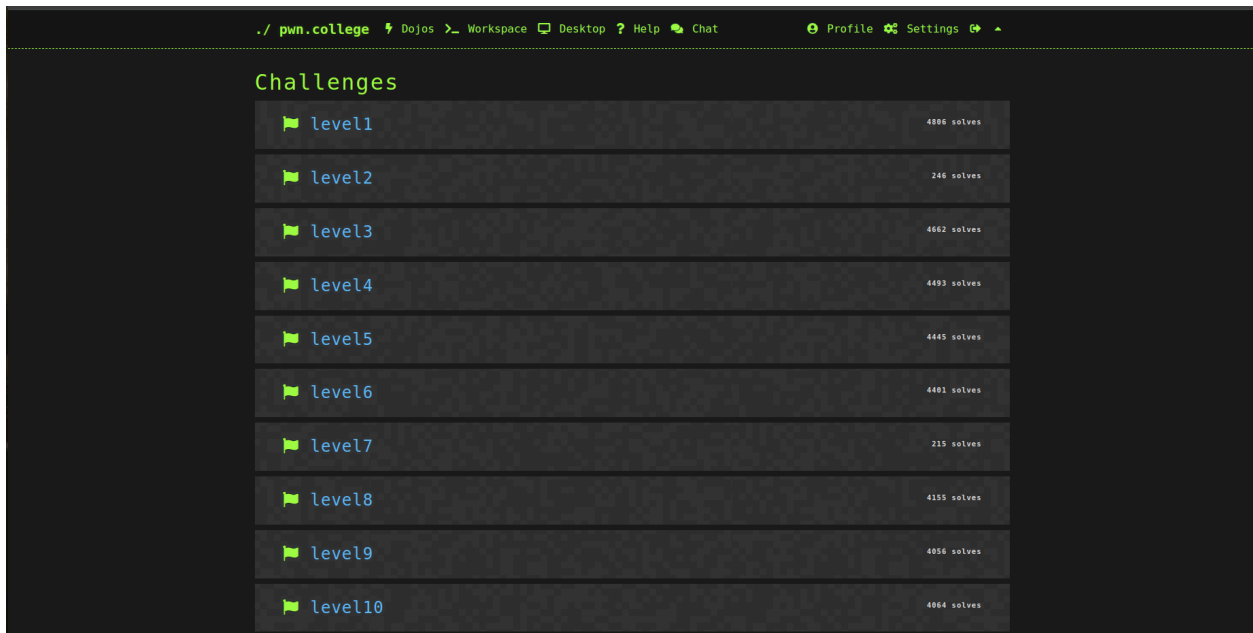
Pwn challenges

Beginning code:

```
.global _start
```

```
_start:
```

```
.intel_syntax noprefix
```



The screenshot shows the pwn.college website interface. At the top, there is a navigation bar with links for Dojos, Workspace, Desktop, Help, Chat, Profile, and Settings. Below the navigation bar, the word "Challenges" is displayed in a green font. Underneath, there is a table listing ten challenges, each with a flag icon, a name, and a solve count.

Challenge	Solves
level1	4896 solves
level2	246 solves
level3	4662 solves
level4	4493 solves
level5	4445 solves
level6	4401 solves
level7	215 solves
level8	4155 solves
level9	4056 solves
level10	4064 solves

level 1

```
mov rdi, 0x1337
```

level 2

```
mov rax, 0x1337
mov r12, 0xCAFED00D1337BEEF
mov rsp, 0x31337
```

level 3

```
add rdi, 0x331337
```

level 4

```
imul rdi, rsi
add rdi, rdx
mov rax, rdi
```

level 5

```
mov rax, rdi; div rsi
```

level 6

```
mov rax, rdi
div, rsi
mov rax, rdx
```

level 7

```
mov ah, 0x42
```

level 8

```
mov al, dil
mov bx, si
```

level 9

```
shl rdi, 24
shr rdi, 56
mov rax, rdi
```

level 10

```
and rax, rdi
and rax, rsi
```

Try coding a simple “Hello world” program using assembly language

```
global _start
```

```
section .text
```

```
_start:
```

```
    mov rax, 1
    mov rdi, 1
    mov rsi, msg
    mov rdx, msglen
    syscall
```

```
    mov rax, 60
    mov rdi, 0
    syscall
```

```
section .rodata
```

```
msg: db "Hello, world!",10
msglen: equ $ - msg
```

