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Question 3

- When using the `-r` option, you are asked to send some data to the target. Exploit this vulnerability to call the `returnAFlag()` function present in the binary.

Hint

- It is easy to find out an input that will cause a segmentation fault...

```
$/hexhunt.out -r example.com
```

```
| _ | _ / _ | _ _ _ _ | _ |  
| ' \ | _ \ \ / ' \ || | ' \ / /  
| _ | _ / _ \ \ || \ , _ | _ | _ / /
```

Hexhunt -- a not so dangerous application

Enter data (in bytes) to return to the target:

aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa

Data has been returned!

Segmentation fault

- The Python `pwn` library can help with exploiting this vulnerability. Do keep in mind the issue of stack alignment when crafting the payload!

```
import pwn  
  
args = ['./hexhunt.out', '-r', 'ntu.edu.sg']  
p = pwn.process(args)  
elf = pwn.ELF(p.argv[0])  
  
returnAFlag_addr = elf.symbols['returnAFlag']  
print(f"win_addr={hex(returnAFlag_addr)}")  
  
# write payload here  
# payload =  
# print(payload)  
  
p.sendline(payload)  
p.interactive()
```