

User Interface for Stack

Implement a user driven stack for storing integers. The user interface is as specified on the next page. A sample run of the program is:

```
$ ./a.out
Enter command: push 55
Stack not initialised
Enter command: init 1000
Enter command: push 55
Enter command: push 56
Enter command: push 57
Enter command: del 56 all
Enter command: print
57
55
Enter command: pop all
57
55
Enter command: print
Stack is empty
Enter command: print xyz
Invalid command
Enter command: push 35 100
Enter command: size
Stack size = 1000, in use = 100
Enter command: del 35 20
Enter command: size
Stack size = 1000, in use = 80
Enter command: resize 200
Enter command: size
Stack size = 2000, in use = 80
Enter command: del 35 10
Enter command: size
Stack size = 2000, in use = 70
Enter command: pop 10
35
35
35
35
35
35
35
35
35
35
35
Enter command: size
Stack size = 2000, in use = 60
Enter command: del 35 all
Enter command: size
Stack size = 2000, in use = 0
Enter command: print
Stack is empty
Enter command: quit
Program terminating
```

