

```
if __name__ == "__main__":  
    s = stack(5) # 5 is the stack dimension  
    print(s)  
    trend = True  
    for i in range(-1,14):  
        if s.is_empty():  
            s.become({push}, {pop})  
            trend = True  
        elif s.is_full():  
            s.become({pop}, {push})  
            trend = False  
        s.push(i) if trend else s.pop()  
        print(s)  
    print(s.__dict__)
```