```
class Stack:
  def __init__(self, list = None):
    if list == None:
      self.items = []
    else:
      self.items = list
    self.size = len(self.items)

  def __str__(self):
    s = 'stack of '+ str(self.size())+' items : '
    for ele in self.items:
      s += str(ele)+' '
    return s

  def push(self, i):
    self.items.append(i)
    self.size += 1

  def pop(self):
    return self.items.pop()
```

```
  def peek(self):
    return self.items[ -1]

  def isEmpty(self):
    return self.items == []

  def size(self):
    return len(self.items)

s = Stack()
s.push('A')
s.push('B')
s.push('C')
s.push('D')
s.push('E')
s.push('F')

print(s.items)
print(s.pop())
print(s.items)
print(s.peek())
```

```
print(s.items)
print(s.pop())
print(s.items)
print(s.peek())
print(s.items)
print(s.pop())
print(s.items)
print(s.peek())
print(s.items)
print(s.pop())
print(s.items)
print(s.peek())
print(s.items)
print(s.pop())
print(s.items)
print(s.peek())
print(s.items)
print(s.pop())
print(s.items)
print(s.isEmpty())
```

OUTPUT:

```
['A', 'B', 'C', 'D', 'E', 'F']
F
['A', 'B', 'C', 'D', 'E']
E
['A', 'B', 'C', 'D', 'E']
E
['A', 'B', 'C', 'D']
D
['A', 'B', 'C', 'D']
D
['A', 'B', 'C']
C
['A', 'B', 'C']
C
['A', 'B']
B
['A', 'B']
B
['A']
A
['A']
A
[]
True
```