

```
In [3]: def fib_iter(n):
        a=1
        b=1
        if n==1:
            print('0')
        elif n==2:
            print('0','1')
        else:
            print("Iterative Approach: ", end=' ')
            print('0',a,b,end=' ')
            for i in range(n-3):
                total = a + b
                b=a
                a= total
                print(total,end=' ')
            print()
```

```
fib_iter(50)
```

```
Iterative Approach:  0 1 1 2 3 5 8 13 21 34 55 89 144 233 377 610 987 1597 2584 4181 6
765 10946 17711 28657 46368 75025 121393 196418 317811 514229 832040 1346269 2178309 3
524578 5702887 9227465 14930352 24157817 39088169 63245986 102334155 165580141 2679142
96 433494437 701408733 1134903170 1836311903 2971215073 4807526976 7778742049
```

```
In [ ]:
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