

```
"""
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CP1404/CP5632 - Practical - Suggested Solution
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```
Loops
```

```
"""
```

```
# odd numbers from 1 to 20
```

```
for i in range(1, 21, 2):
```

```
    print(i, end=' ')
```

```
print()
```

```
# a. count in 10s from 0 to 100: 0 10 20 30 40 50 60 70 80 90 100
```

```
for i in range(0, 101, 10):
```

```
    print(i, end=' ')
```

```
print()
```

```
# b. count down from 20 to 1: 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
```

```
for i in range(20, 0, -1):
```

```
    print(i, end=' ')
```

```
print()
```

```
# c. print n stars. Ask the user for a number, then print that many stars (*), all on one line
```

```
# Note: this is a very simple loop for repeating n times.
```

```
# We use for loops for "definite" iteration like this.
```

```
# while loops are used for "indefinite" iteration (like repeating while a user input is incorrect).
```

```
number_of_stars = int(input("Number of stars: "))
```

```
for i in range(number_of_stars):
```

```
    print('*', end=' ')
```

```
print()
```

```
# d. print n lines of increasing stars.
```

```
# Using the same number as above print lines of increasing stars, starting at 1.
```

```
# E.g. if 4 was the number entered, your single loop should print
```

```
# *
```

```
# **
```

```
# ***
```

```
# ****
```

```
for i in range(number_of_stars):
```

```
    print('*' * (i + 1), end=' ')
```

```
    print()
```

```
print()
```