



Lab Revision

List Comprehension



[$x + x^{**2}$ for x in range(5)]



x



range(5)	
0	
1	
2	
3	
4	

[0, 2, 6, 12, 20]

[print(word, end="-") for word in rev_list]

```
In [2]: 1 rev_list=["sentence","long","very","a","is","This"]
        2 [print(word,end="-") for word in rev_list]
        sentence-long-very-a-is-This-
Out[2]: [None, None, None, None, None, None]
```

```
In [1]: 1 print(print(1))
```

1
None



```
[ print(word, end="-") for word in rev_list ]
```

Output:
sentence-long-very- a-is- This-





word ←

rev_list
sentence
long
very
a
is
This

[None, none, ...]

 $\text{tens} * 10 + \text{units}$ for tens in range(10) if tens % 2 == 1
for units in range(10) if units % 2 == 0]



Tens:	0	1	2	3	4	5	6	7	8	9
0	00	10	20	30	40	50	60	70	80	90
1	01	11	21	31	41	51	61	71	81	91
2	02	12	22	32	42	52	62	72	82	92
3	03	13	23	33	43	53	63	73	83	93
4	04	14	24	34	44	54	64	74	84	94
5	05	15	25	35	45	55	65	75	85	95
6	06	16	26	36	46	56	66	76	86	96
7	07	17	27	37	47	57	67	77	87	97
8	08	18	28	38	48	58	68	78	88	98
9	09	19	29	39	49	59	69	79	89	99

[10, 12, 14, 16, 18, 30, 32, 34, 36, 38, 50, 52, 54, 56, 58, 70, 72, 74, 76, 78, 90, 92, 94, 96, 98]