Linked list:
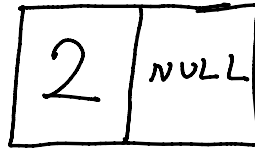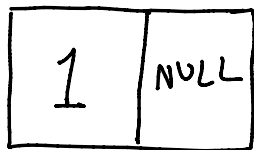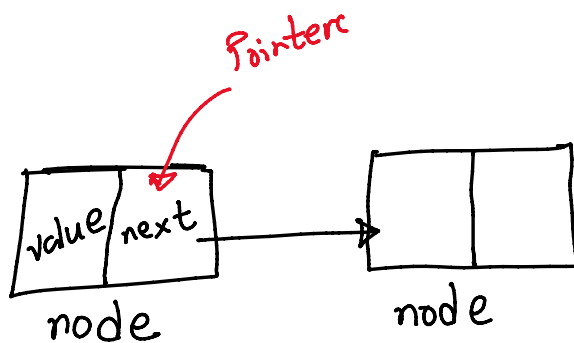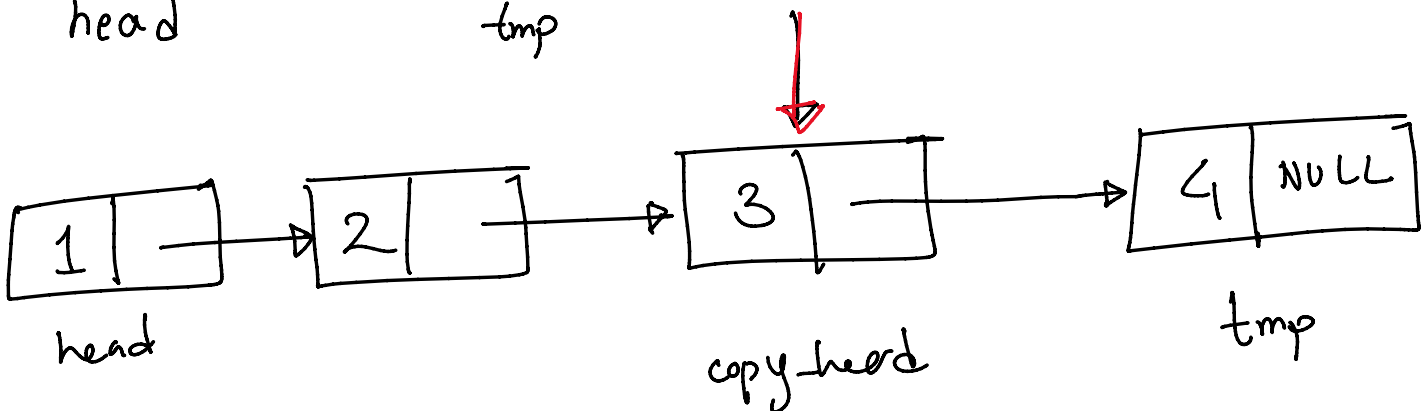
① Linked list node representation

② Insert at tail position

③ Print full linked list

Pointer

value | next → node
node

\

·

1 | NULL
head

2 | NULL
tmp

copy_head→next = tmp

1 | → 2 | → 3 | → 4 | NULL
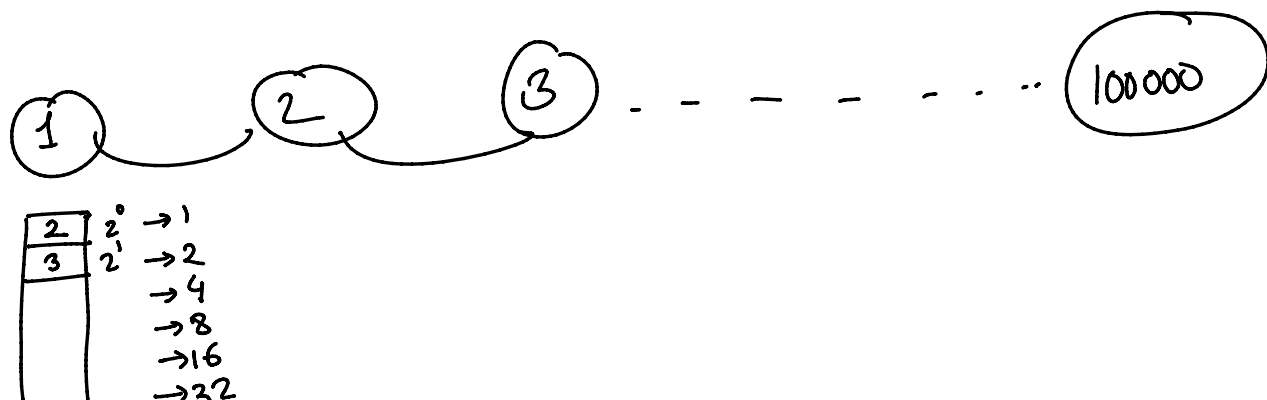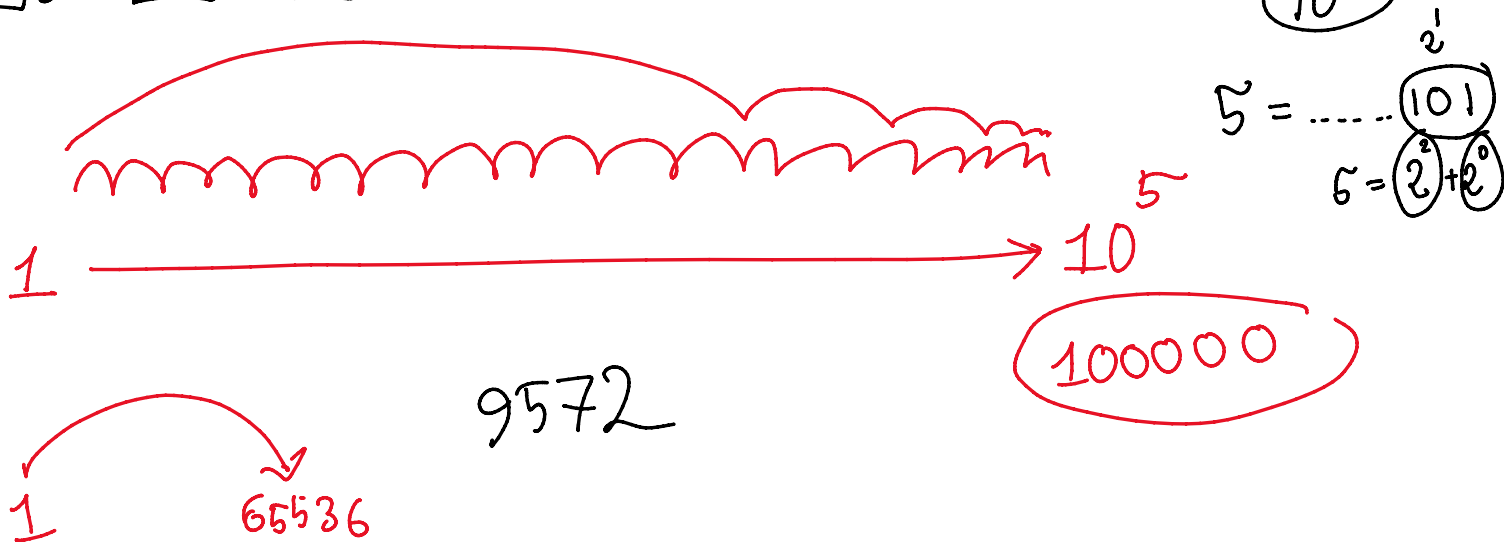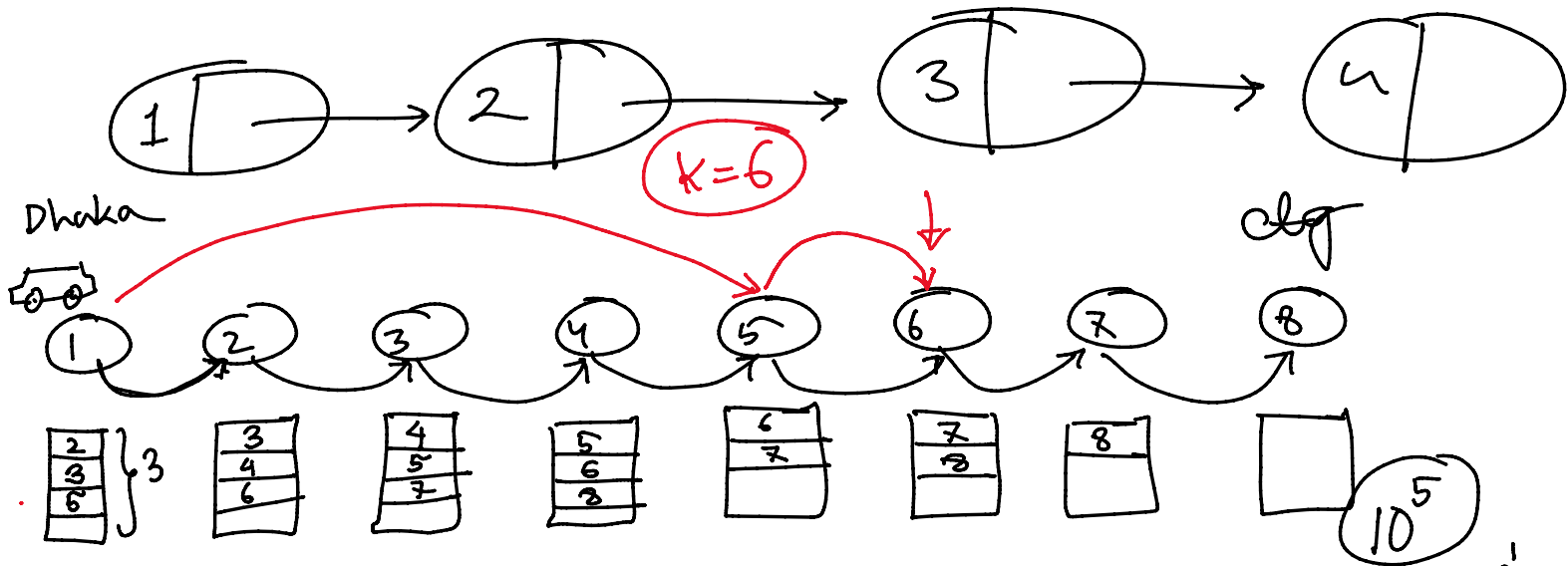head   copy_head   tmp

node   tmp

tmp.value

· dot

→ arrow

$2^k \rightarrow 10^5$

node   tmp   tmp . value

node * tmp   tmp → value

1 → 2 → 3 → 4

k=6

Dhaka

1 2 3 4 5 6 7 8   dhaka

```
2          3          4          5          6          7          8
3          4          5          6          7          8
6          6          7          8          7          8
```
} 3

10^5

$5 = \ldots \underset{2^2 \, 2^0}{101}$

$6 = 2^2 + 2^0$

1 $\longrightarrow 10^5$

100000

9572

1 → 65536

1 — 2 — 3 - - - - - - 100000

```
2    2^0 → 1
3    2^1 → 2
        → 4
        → 8
        → 16
        → 22
```

$\rightarrow 8$
$\rightarrow 16$
$\rightarrow 32$
$\rightarrow 64$