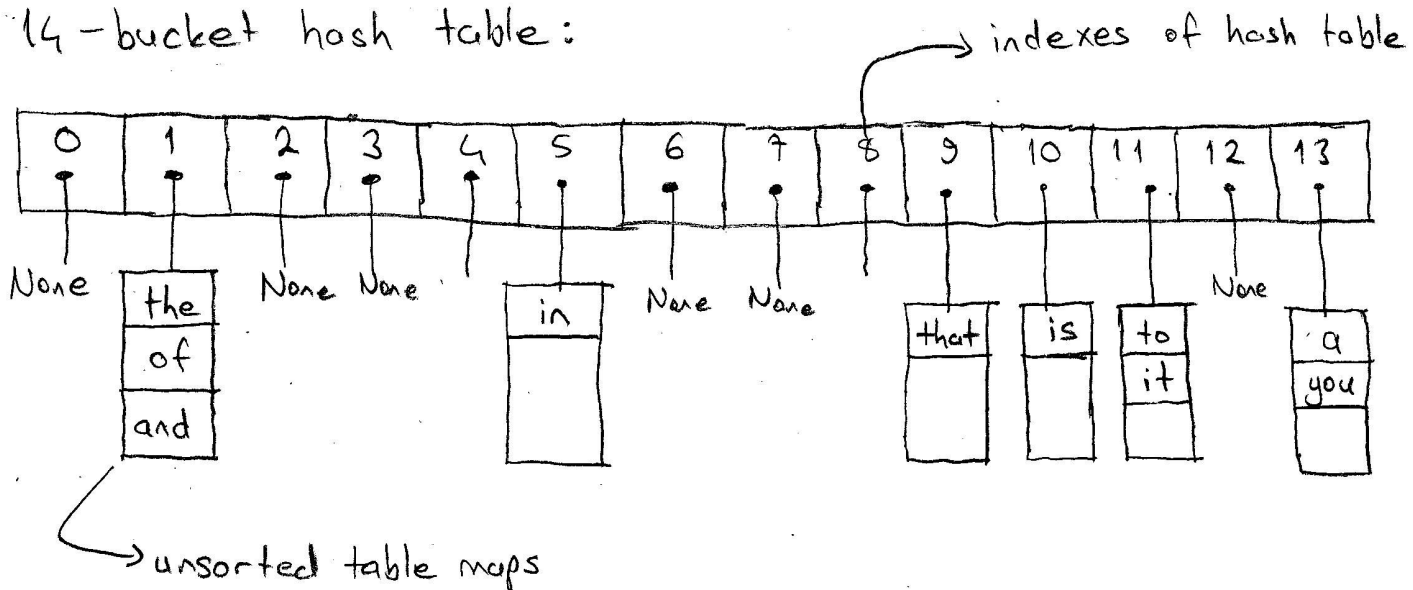


Task-1

the	$\Rightarrow 114801 \% 14 = 1$	$(k, v) \rightarrow \text{key, value}$
of	$\Rightarrow 3543 \% 14 = 1$	$(1, \text{the})$
to	$\Rightarrow 3707 \% 14 = 11$	$(1, \text{of})$
and	$\Rightarrow 96727 \% 14 = 1$	$(11, \text{to})$
a	$\Rightarrow 97 \% 14 = 13$	$(1, \text{and})$
in	$\Rightarrow 3365 \% 14 = 5$	$(13, \text{a})$
is	$\Rightarrow 3370 \% 14 = 10$	$(5, \text{in})$
it	$\Rightarrow 3371 \% 14 = 11$	$(10, \text{is})$
you	$\Rightarrow 119839 \% 14 = 13$	$(11, \text{it})$
that	$\Rightarrow 3558823 \% 14 = 9$	$(13, \text{you})$
		$(9, \text{that})$

14-bucket hash table:



Task-2

0	1	2	3	4	5	6	7	8	9	10	11	12	13
you	the	of	and		in				that	is	to	it	a

By linear probing $f(i) = i$,

hashtable $[\text{hash}(\text{word}) + i \bmod 14]$ in the $(i+1)^{\text{st}}$ trial

for the	hashtable $[1+i]$	$i=0$	\Rightarrow	hashtable $[1]$
of	$[1+i]$	$i=1$	\Rightarrow	$[2]$
to	$[11+i]$	$i=0$	\Rightarrow	$[11]$
and	$[1+i]$	$i=2$	\Rightarrow	$[3]$
a	$[13+i]$	$i=0$	\Rightarrow	$[13]$
in	$[5+i]$	$i=0$	\Rightarrow	$[5]$
is	$[10+i]$	$i=0$	\Rightarrow	$[10]$
it	$[11+i]$	$i=1$	\Rightarrow	$[12]$
you	$[13+i]$	$i=1$	\Rightarrow	$[0] \pmod{14}$
that	$[9+i]$	$i=0$	\Rightarrow	$[9]$

Others are None.