http://algs4.cs.princeton.edu

3.4 LINEAR PROBING DEMO

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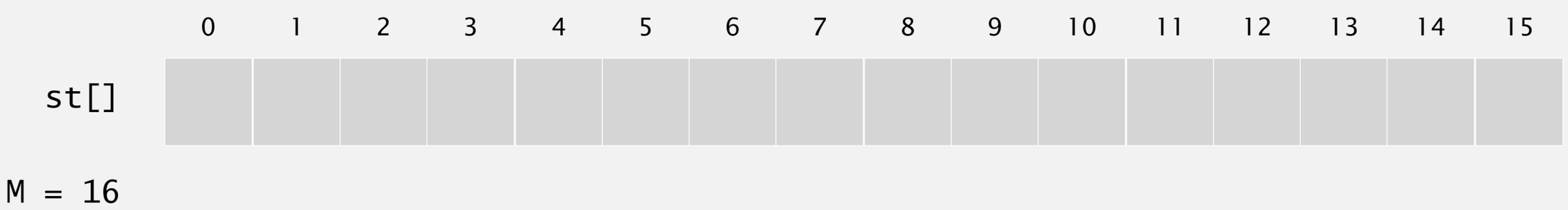
- *insert*
- *search*

Linear-probing hash table demo: insert

Hash. Map key to integer i between 0 and M-1.

Insert. Put at table index i if free; if not try i+1, i+2, etc.

linear-probing hash table



Linear-probing hash table demo: insert

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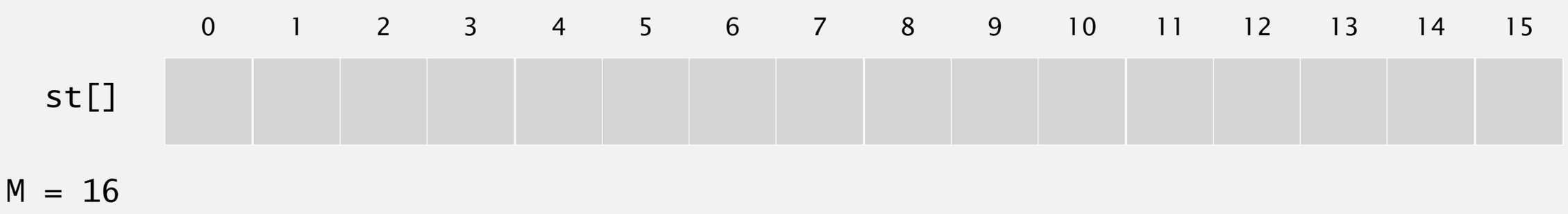
insert S

hash(S) = 6



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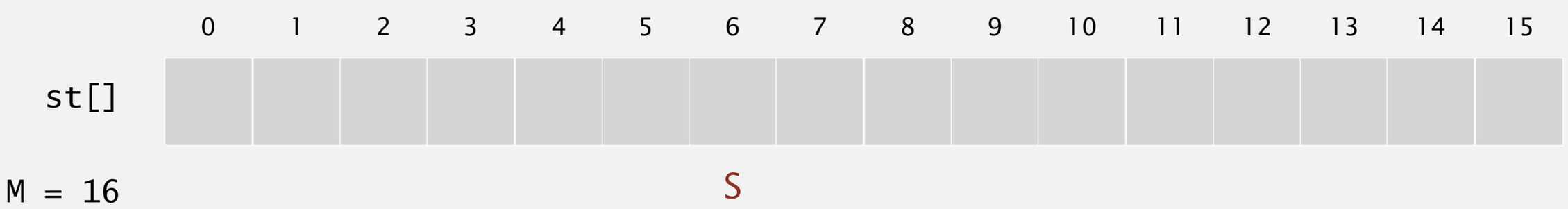

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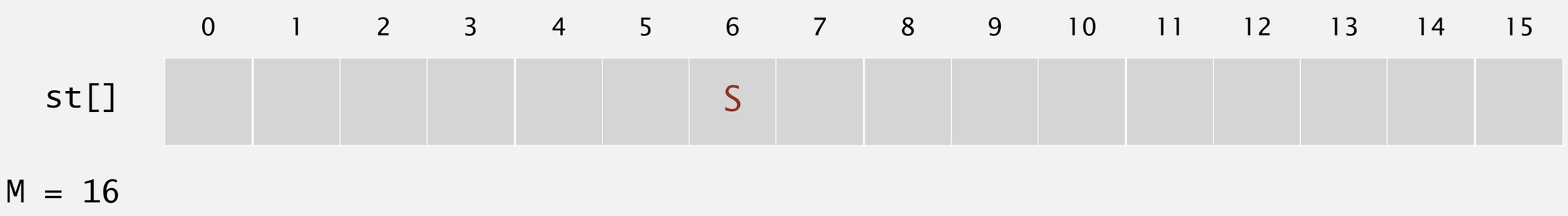

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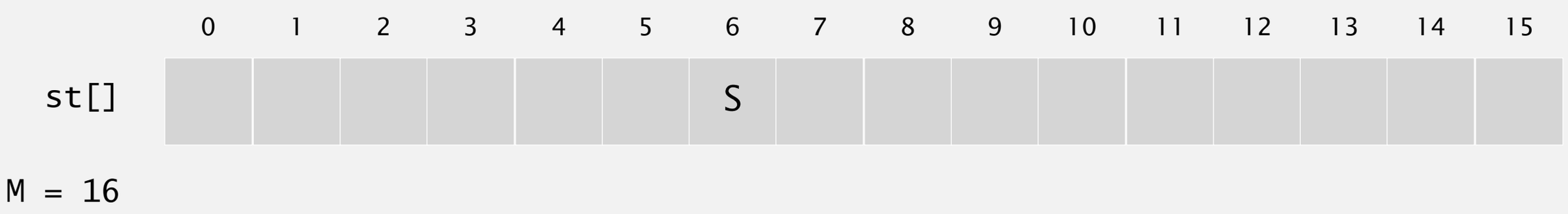


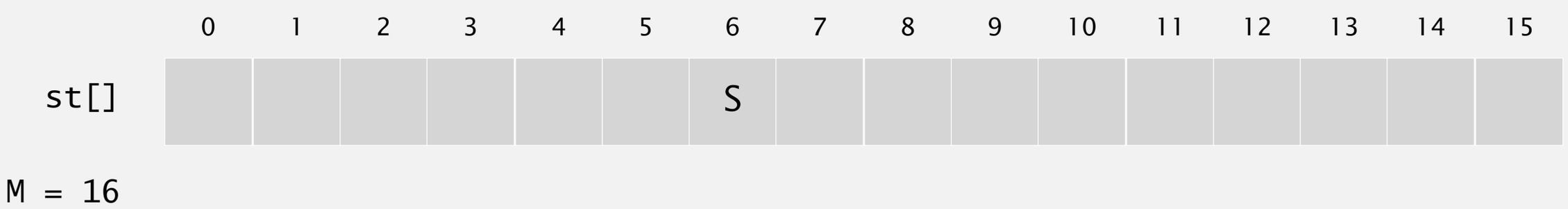
Linear-probing hash table demo: insert

Hash. Map key to integer i between 0 and M-1.

Insert. Put at table index i if free; if not try i+1, i+2, etc.

insert E

hash(E) = 10



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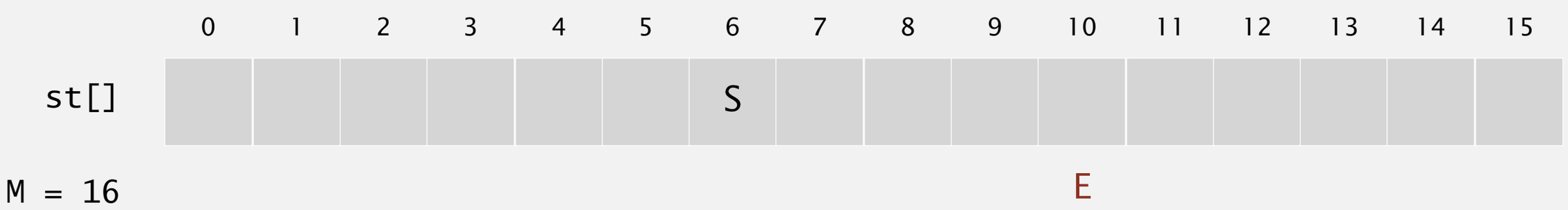

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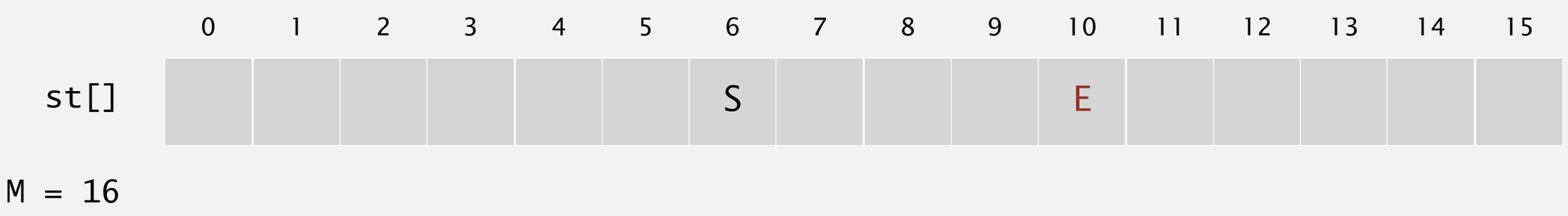

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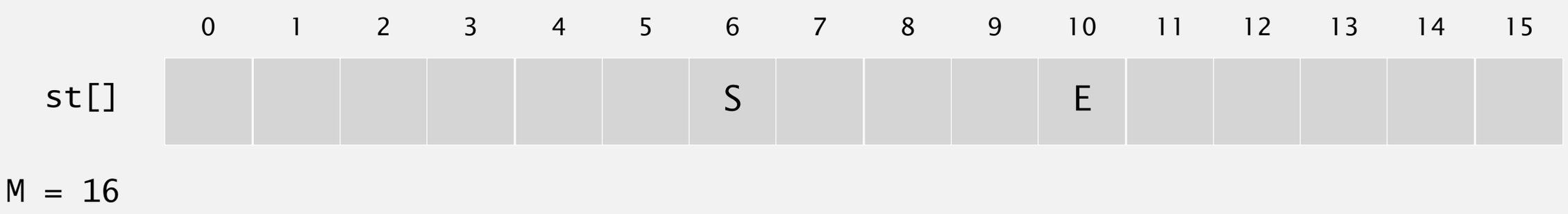


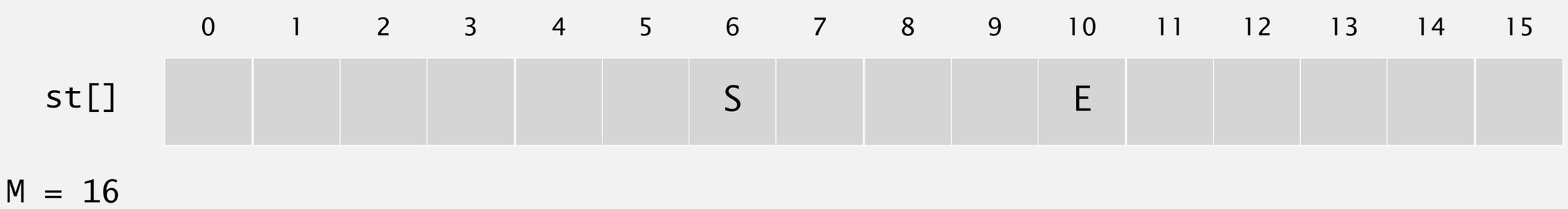
Linear-probing hash table demo: insert

Hash. Map key to integer i between 0 and M-1.

Insert. Put at table index i if free; if not try i+1, i+2, etc.

insert A

hash(A) = 4



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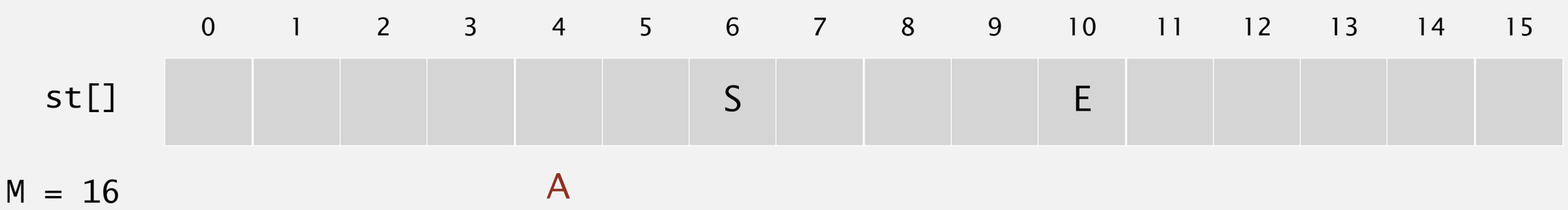

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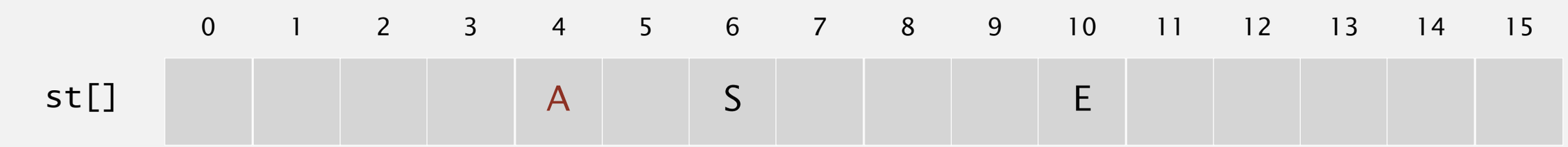

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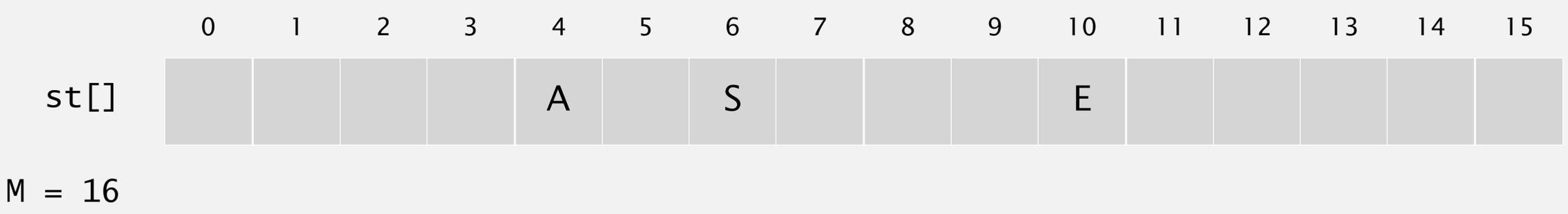


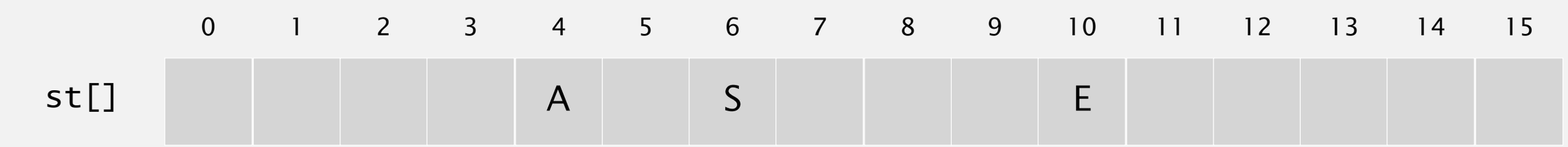
Linear-probing hash table demo: insert

Hash. Map key to integer i between 0 and M-1.

Insert. Put at table index i if free; if not try i+1, i+2, etc.

insert R

hash(R) = 14



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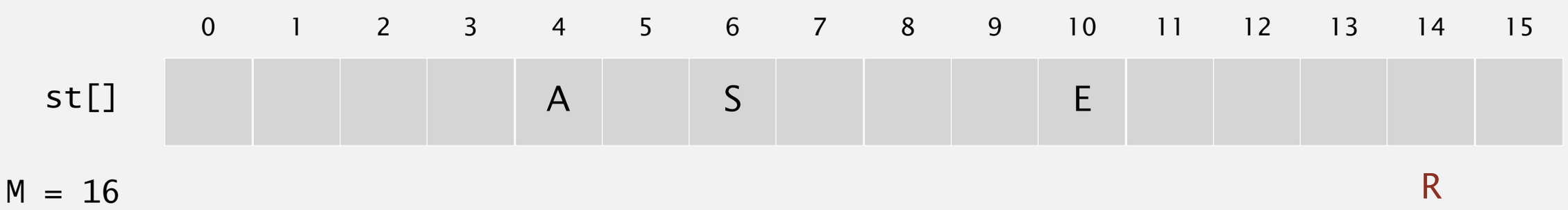

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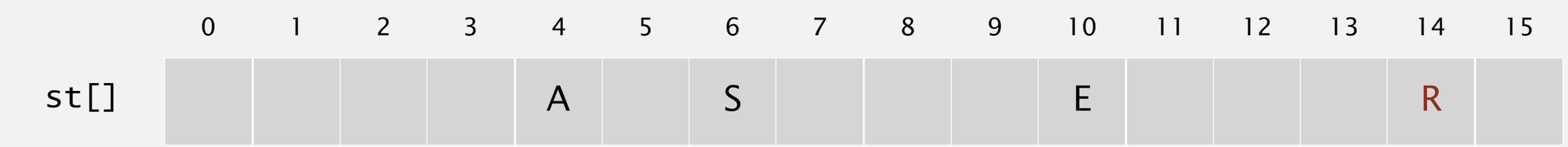

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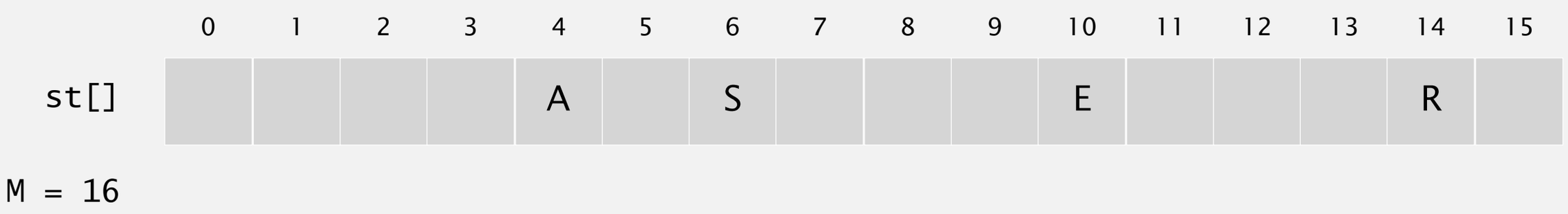


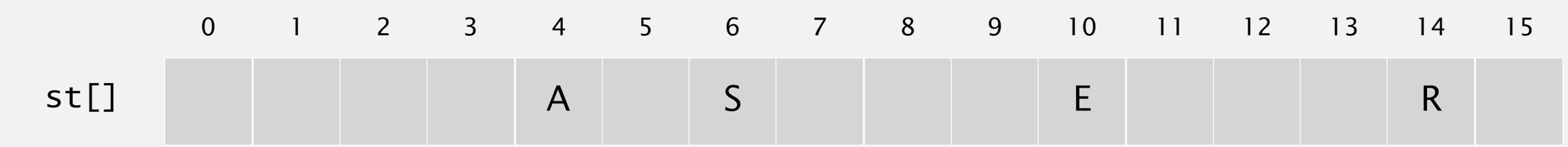
Linear-probing hash table demo: insert

Hash. Map key to integer i between 0 and M-1.

Insert. Put at table index i if free; if not try i+1, i+2, etc.

insert C

hash(C) = 5



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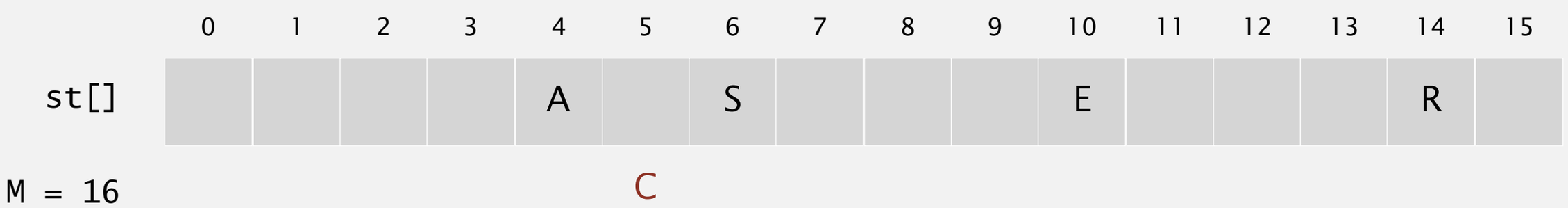

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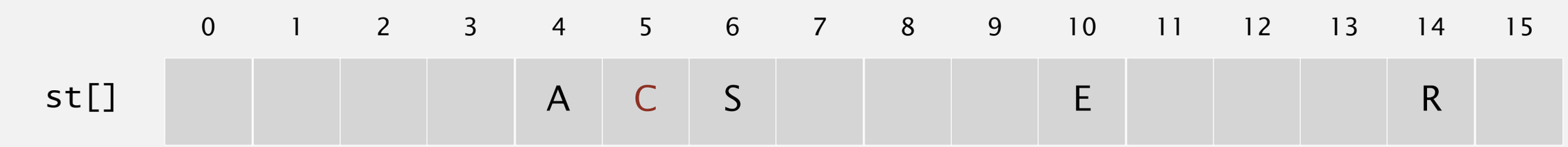

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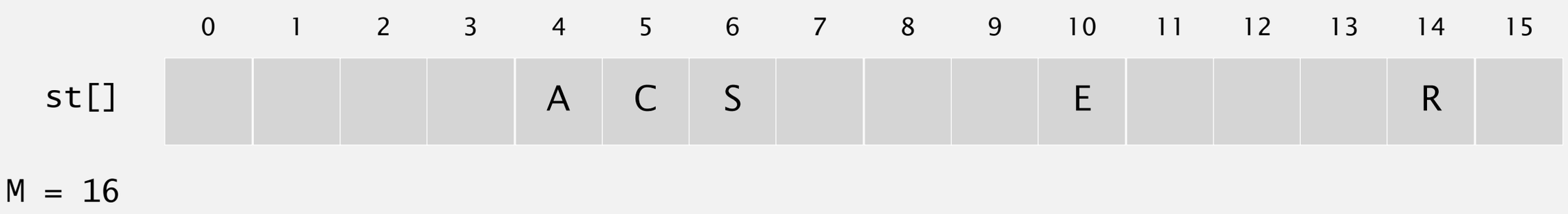

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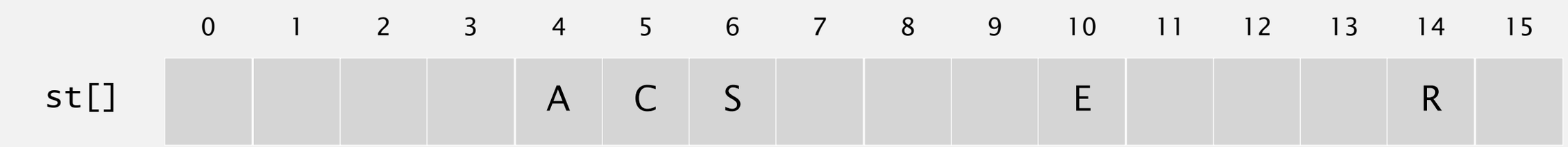
insert H

hash(H) = 4



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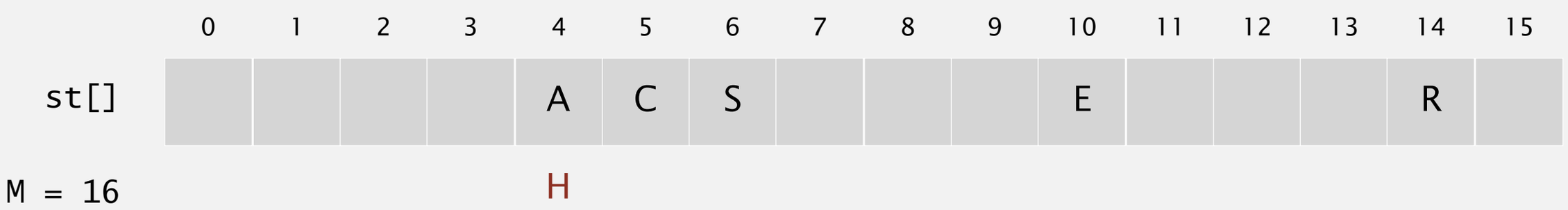

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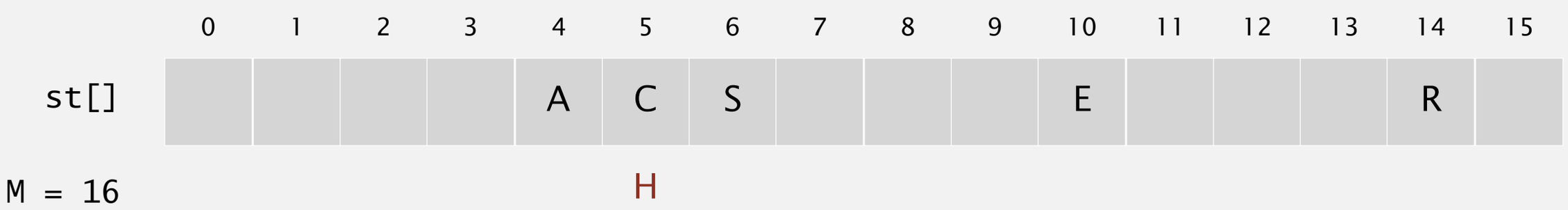

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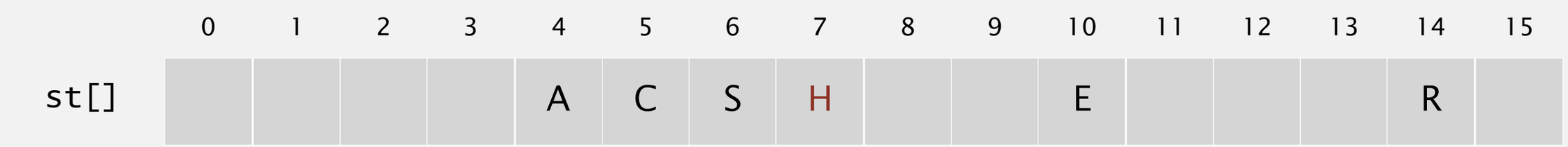

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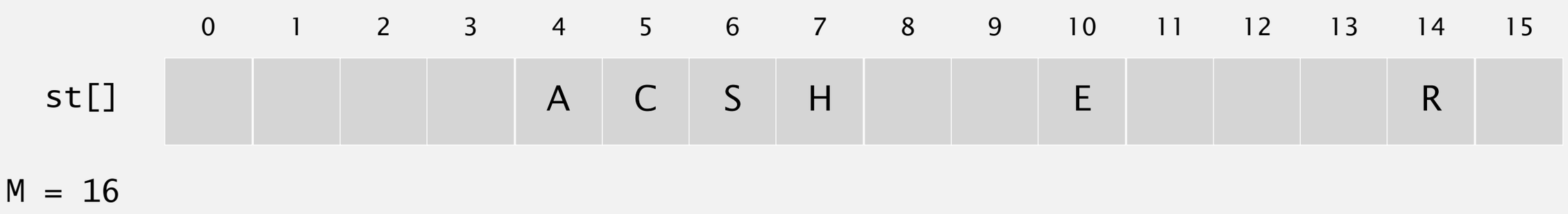

Linear-probing hash table demo: insert

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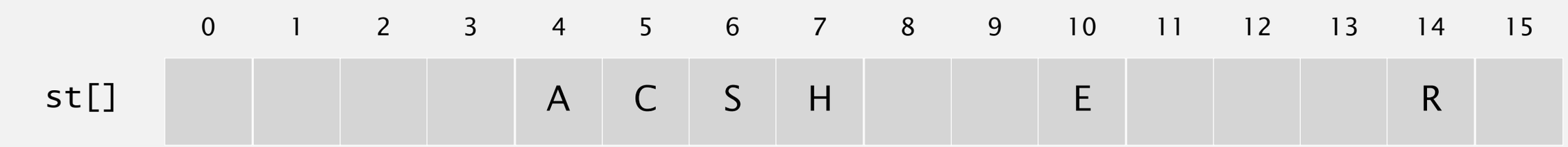
Insert. Put at table index i if free; if not try i+1, i+2, etc.

insert X

hash(X) = 15



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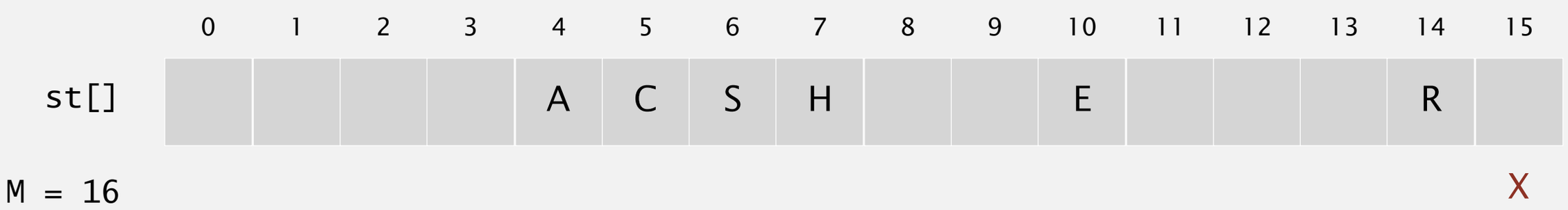

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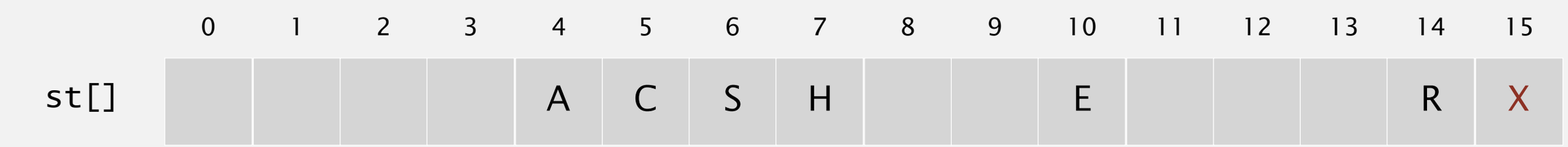

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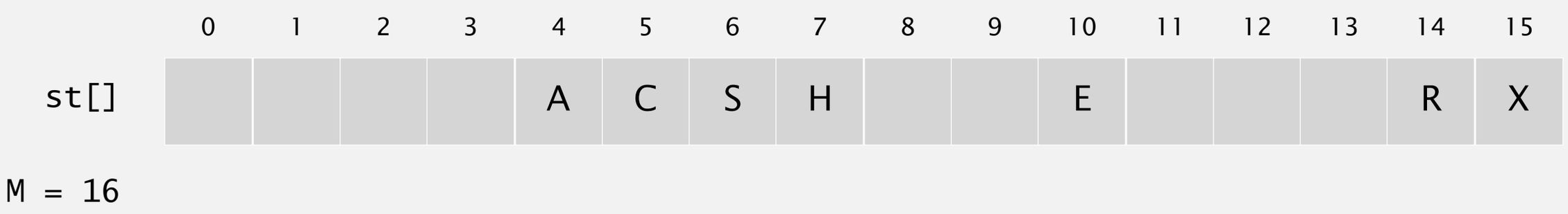


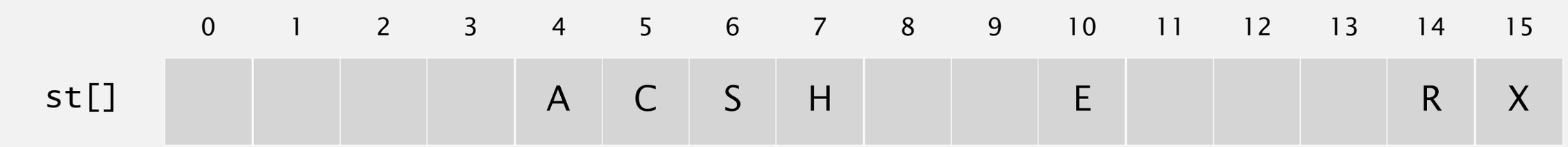
Linear-probing hash table demo: insert

Hash. Map key to integer i between 0 and M-1.

Insert. Put at table index i if free; if not try i+1, i+2, etc.

insert M

hash(M) = 1



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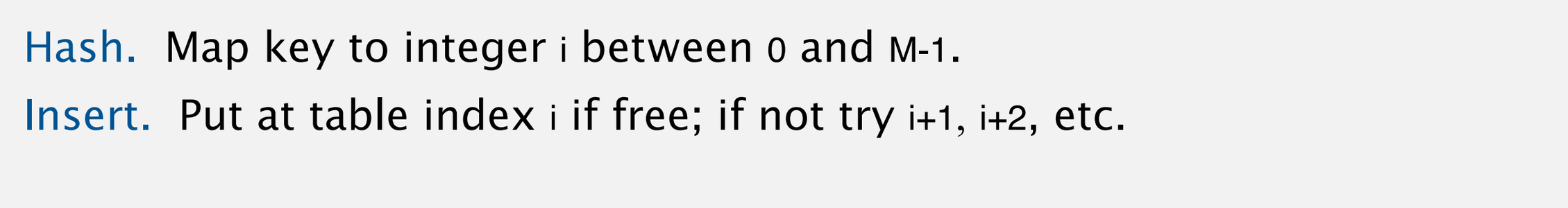

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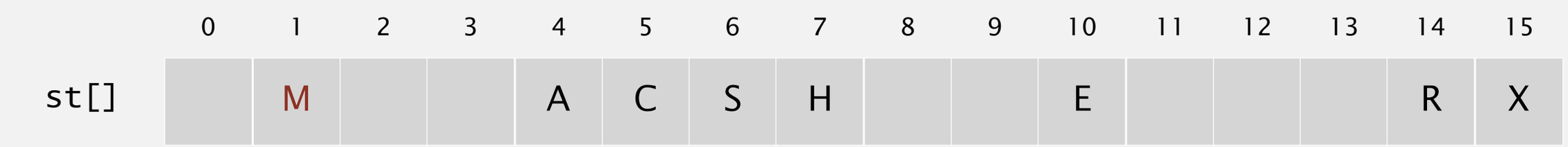

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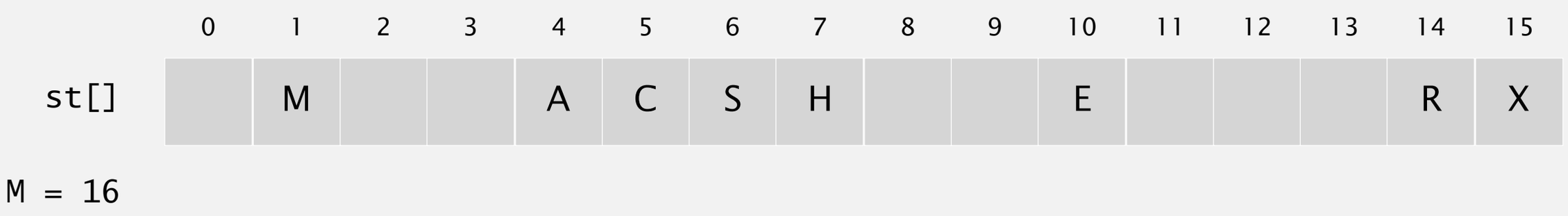


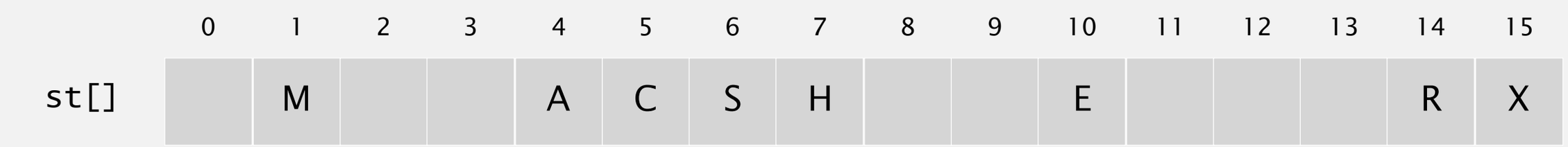
Linear-probing hash table demo: insert

Hash. Map key to integer i between 0 and M-1.

Insert. Put at table index i if free; if not try i+1, i+2, etc.

insert P

hash(P) = 14



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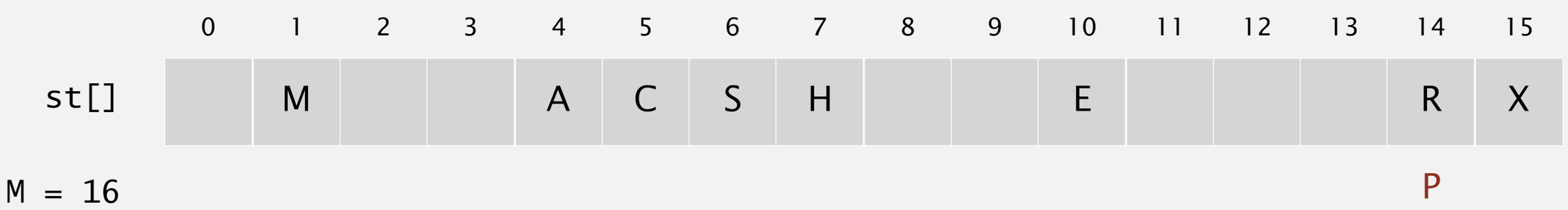

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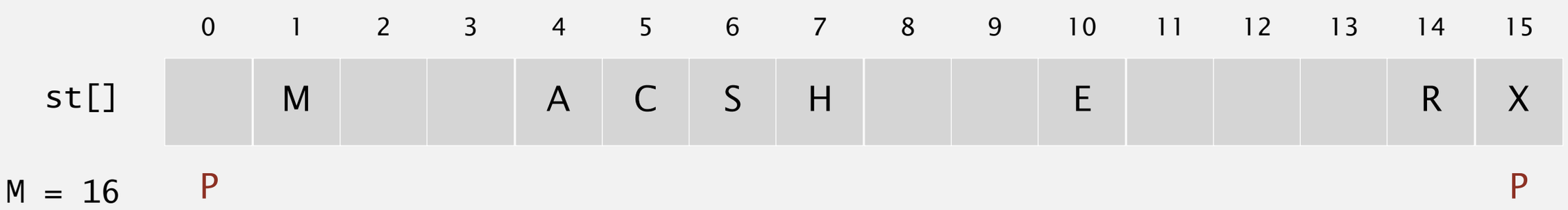

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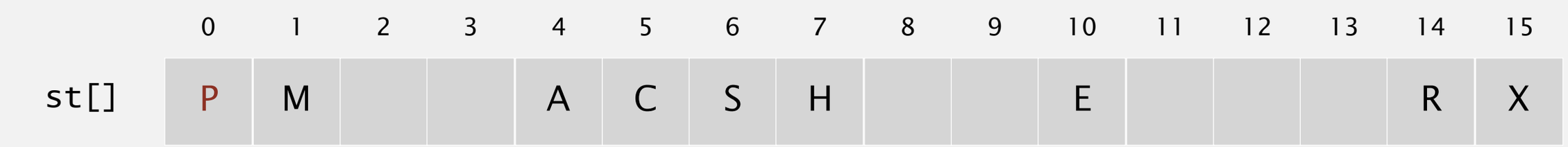

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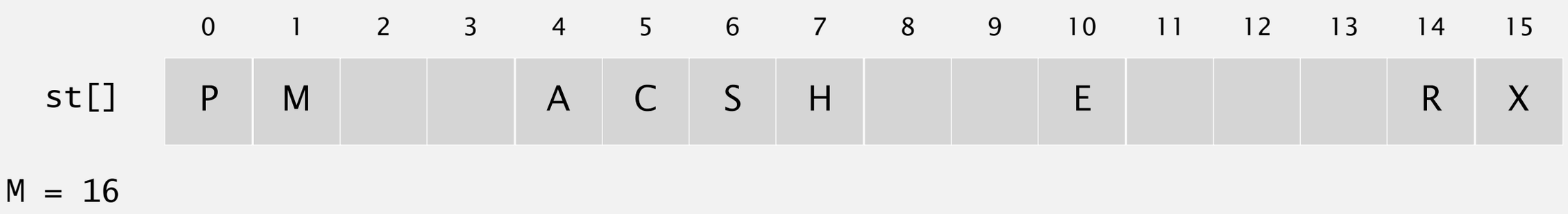

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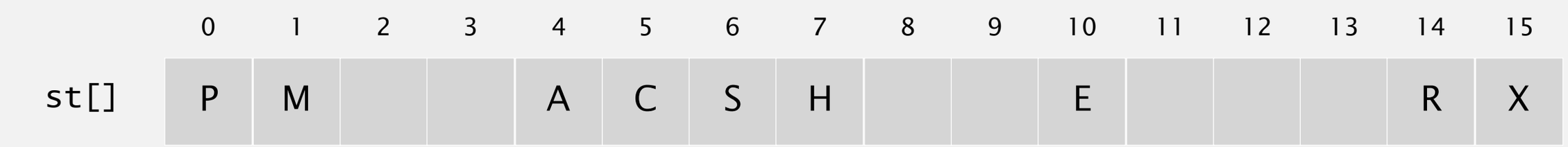
Insert. Put at table index i if free; if not try i+1, i+2, etc.

insert L

hash(L) = 6



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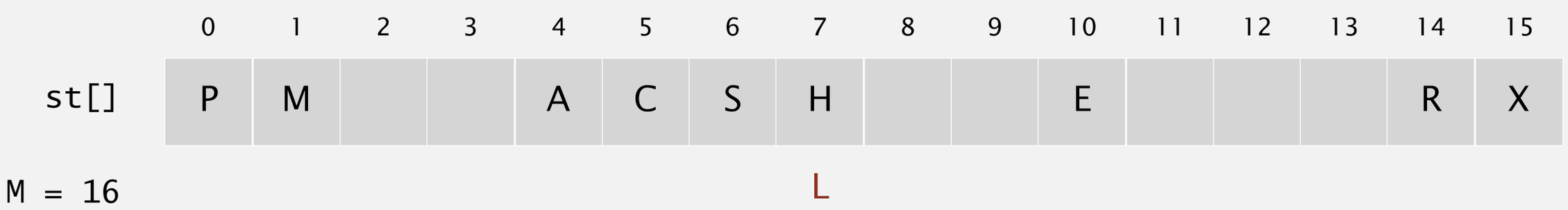

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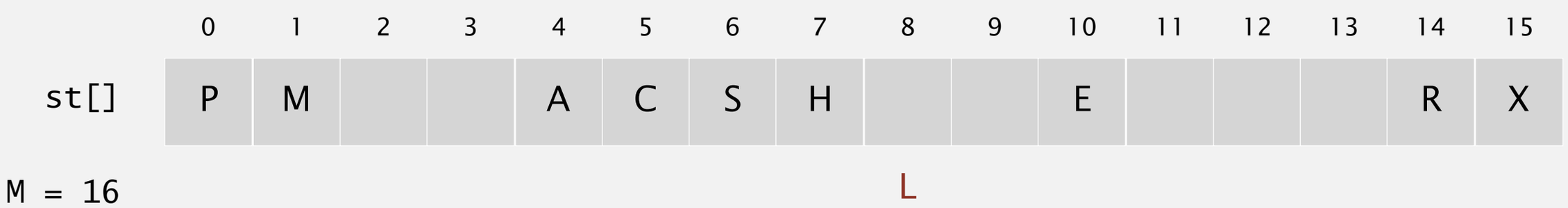
insert L

hash(L) = 6



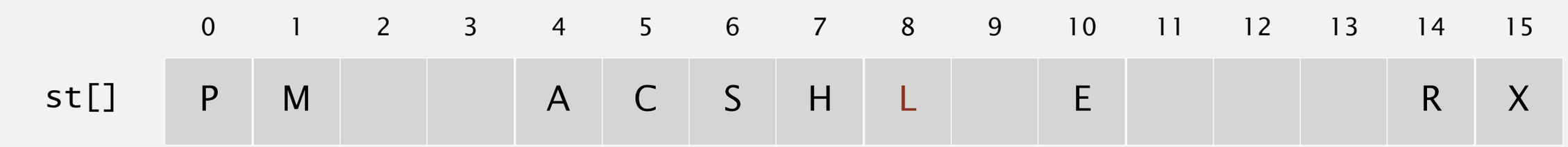
Linear-probing hash table demo: insert

Hash. Map key to integer i between 0 and M-1.

Insert. Put at table index i if free; if not try i+1, i+2, etc.

insert L

hash(L) = 6



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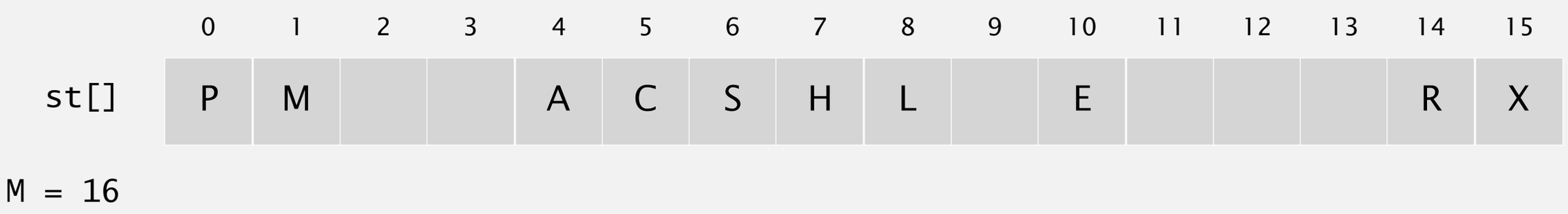
linear-probing hash table



http://algs4.cs.princeton.edu

3.4 Linear Probing Demo

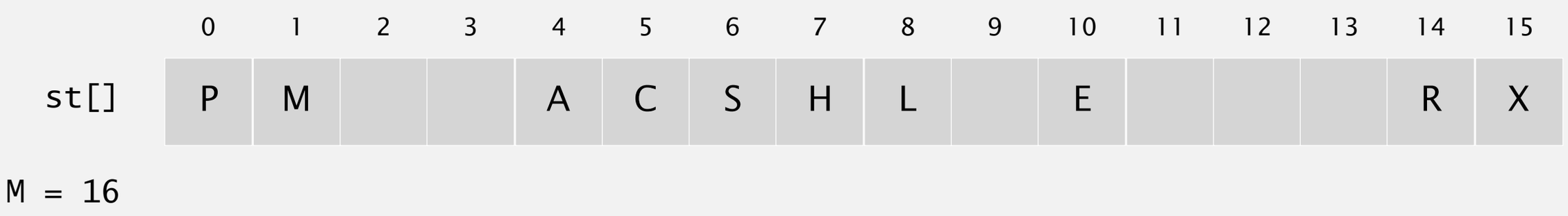
- *insert*
- *search*

Linear-probing hash table demo: search

Hash. Map key to integer i between 0 and M-1.

Search. Search table index i; if occupied but no match, try i+1, i+2, etc.

linear-probing hash table



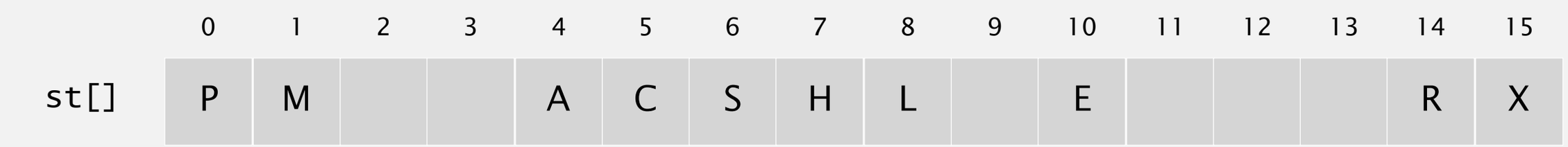
Linear-probing hash table demo: search

Hash. Map key to integer i between 0 and M-1.

Search. Search table index i; if occupied but no match, try i+1, i+2, etc.

search E

hash(E) = 10



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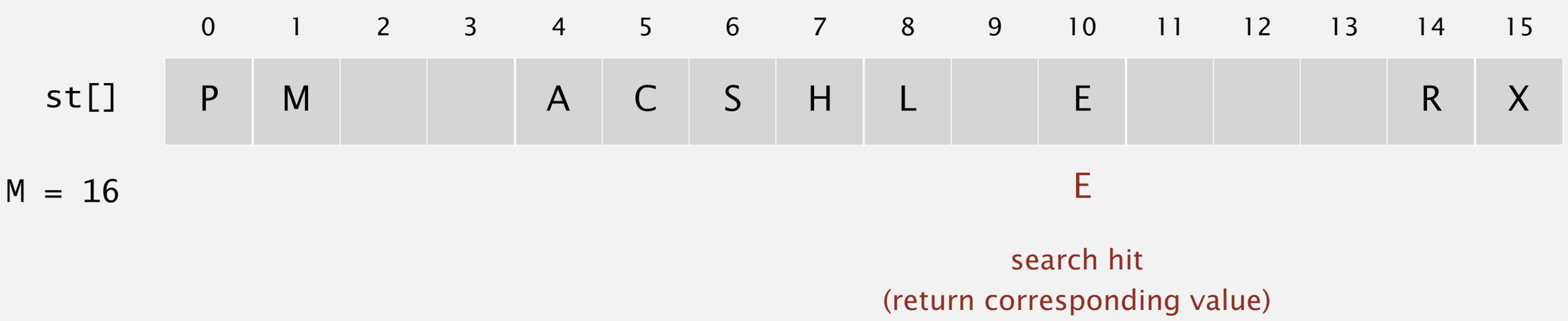
Search. Search table index i; if occupied but no match, try i+1, i+2, etc.

search E

hash(E) = 10



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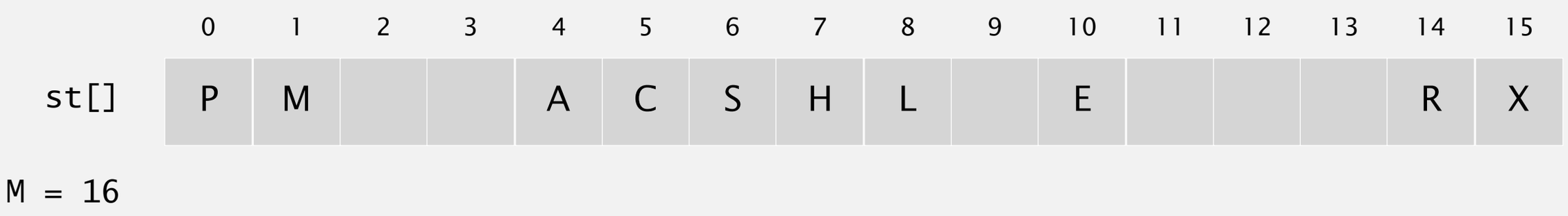
linear-probing hash table



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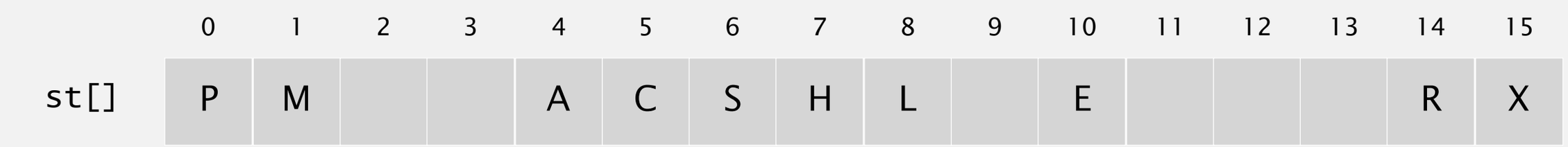
search L

hash(L) = 6



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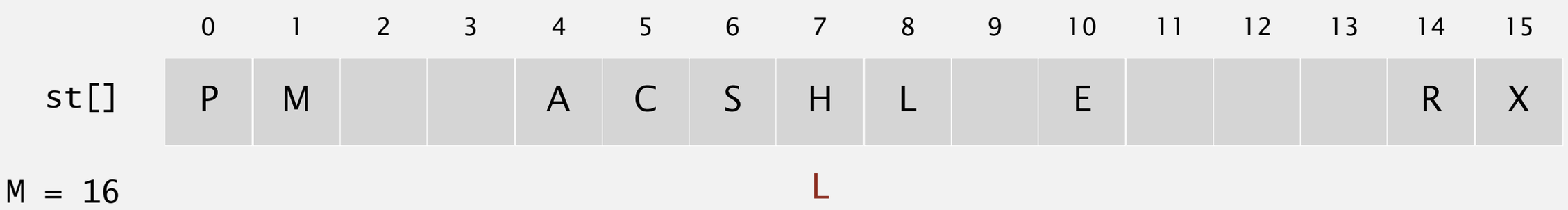

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search L

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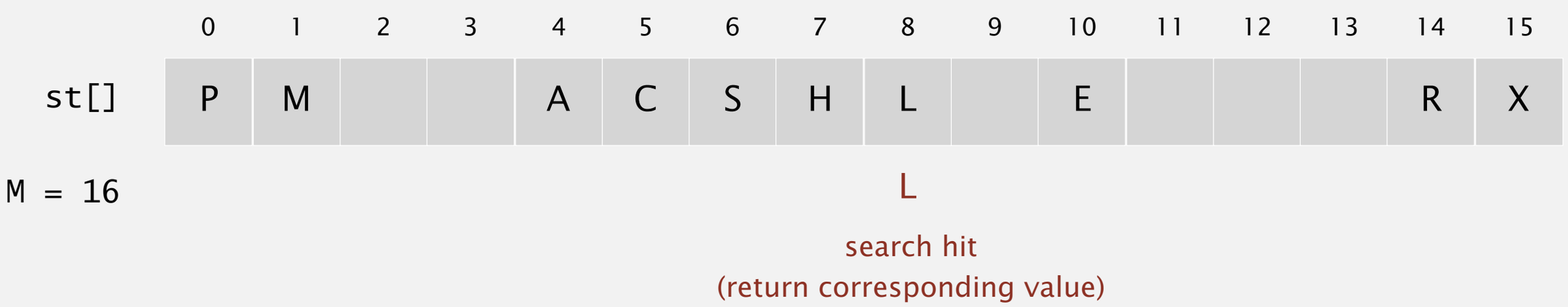

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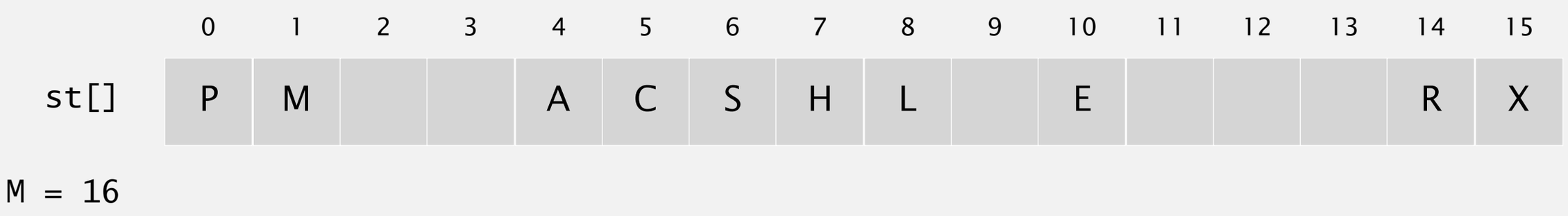
linear-probing hash table



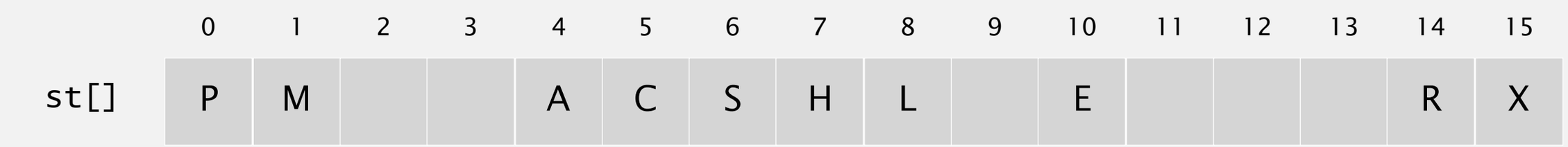
Linear-probing hash table demo: search

Hash. Map key to integer i between 0 and M-1.

Search. Search table index i; if occupied but no match, try i+1, i+2, etc.

search K

hash(K) = 5



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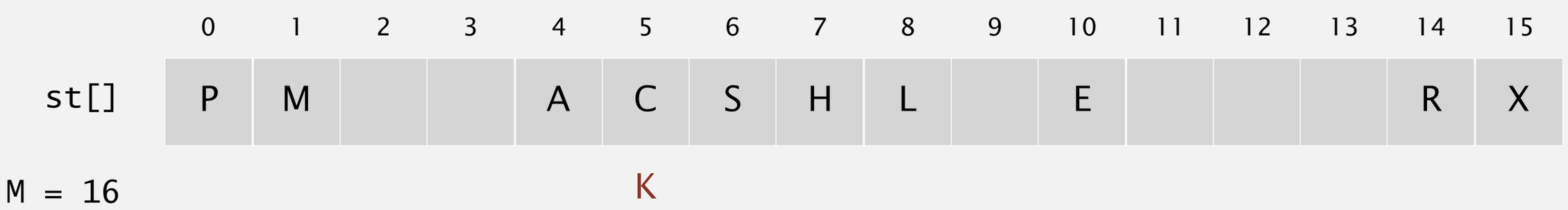

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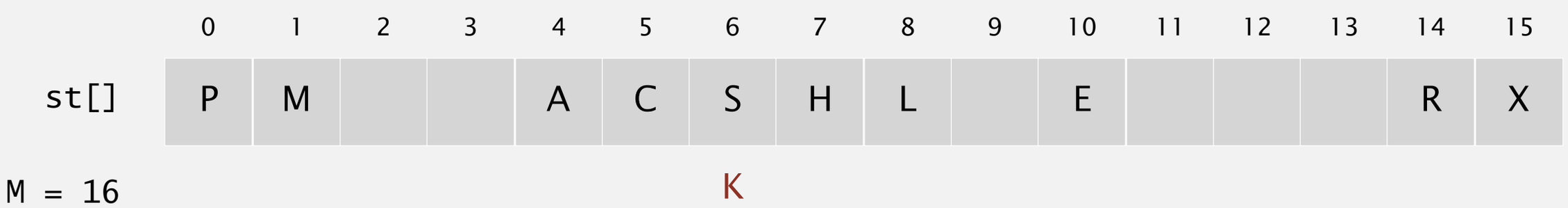

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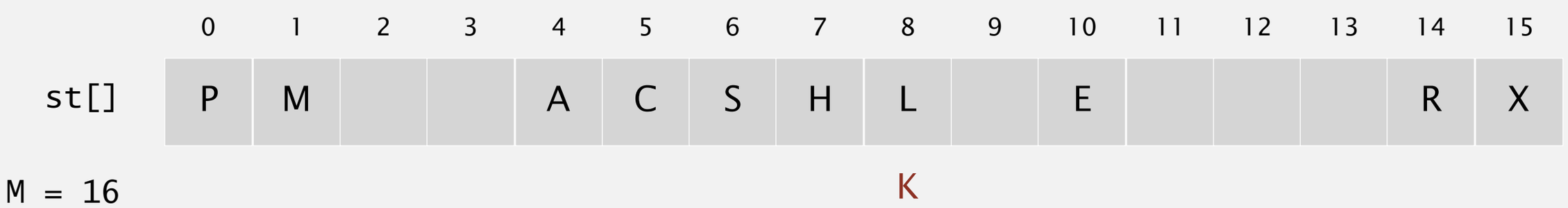

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