tail

head

head

tail

initiate

a

r

r

r

r

a

head

tail

add

...

r

r

a

a

r

r

a

y

head

tail

head

tail

Double-capacity

a

r

r

a

y

r

r

a

head

tail

a

r

r

a

r

r

a

head

tail

add

r

r

head

tail

removeFirst:[r, r, a, a]

removeLast:[a]

remove

front=3;back=4

h(=6)>i(=1)

front<back

d

a

a

r

y

e

head=7

tail=5

a

r

a

r

y

d

e

head=6

tail=5

remove=1

右移覆盖

末位替代

右移

null填充

删除完成

front=2;back=5

h(=4)<i(=6)

front<back

a

r

r

u

q

d

e

head=4

tail=3

remove=6

右移覆盖删除位置

a

r

r

u

d

q

head=5

tail=3

null填充

删除完成

remove=3

a

r

y

head=2

tail=5

右移覆盖