Initial empty buffer:																			
\0	\0	\0	\0	\0	\0	\0	\0	\0	\0	\0	\0	\0	\0	\0	\0	\0	\0	\0	\0
		•	•						•			•							
1. Re	1. Request 3 chars in which to place the string "in "																		
i	n		\0	\0	\0	\0	\0	\0	\0	\0	\0	\0	\0	\0	\0	\0	\0	/0	/0
2. Re	2. Request 7 chars in which to place the string "French"																		
i	n		F	r	е	n	С	h		\0	\0	\0	\0	\0	\0	\0	\0	\0	\0
3. Re	3. Request 7 chars in which to place the string "chapeau"																		
i	n		F	r	е	n	С	h		С	h	a	р	е	а	u	\0	\0	\0
4. Re	4. Remove the 3 chars allocated for "in "																		
\0	\0	\0	F	r	е	n	С	h		С	h	a	р	е	а	u	\0	\0	\0
5. Re	5. Request 3 chars in which to place the string "top"																		
t	0	р	F	r	е	n	С	h		С	h	a	р	е	а	u	\0	\0	\0
6. Re	6. Remove the 7 chars allocated for "French "																		
t	0	р	\0	\0	\0	\0	\0	\0	\0	С	h	a	р	е	a	u	\0	\0	\0

7. Request 8 chars in which to place the string "sombrero"

t	0	р	\0	\0	\0	\0	\0	\0	\0	С	h	a	р	е	a	u	\0	\0	\0	
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- Will return NULL and not change the buffer because there is not a contiguous empty buffer space of size 8 in the buffer at the current state of the buffer (largest contiguous chunk being of size 7).
- 8. Request 3 chars in which to place the string "hat"