

## CareerCup Eliminate all 'b' and 'ac' in an array of characters

<p><span style="color:rgb(51,51,51); font-family:sans-serif; font-size:14px; line-height:17px; background-color:rgb(242,242,242)">Eliminate all 'b' and 'ac' in an array of characters, you have to replace them in-place, and you are only allowed to iterate over the char array once.&#160;</span><br style="color:rgb(51,51,51); font-family:sans-serif; font-size:14px; line-height:17px; background-color:rgb(242,242,242)"><br style="color:rgb(51,51,51); font-family:sans-serif; font-size:14px; line-height:17px; background-color:rgb(242,242,242)"><span style="color:rgb(51,51,51); font-family:sans-serif; font-size:14px; line-height:17px; background-color:rgb(242,242,242)">Examples:&#160;</span><br style="color:rgb(51,51,51); font-family:sans-serif; font-size:14px; line-height:17px; background-color:rgb(242,242,242)"><span style="color:rgb(51,51,51); font-family:sans-serif; font-size:14px; line-height:17px; background-color:rgb(242,242,242)">abc -&#62; ac&#160;</span><br style="color:rgb(51,51,51); font-family:sans-serif; font-size:14px; line-height:17px; background-color:rgb(242,242,242)"><span style="color:rgb(51,51,51); font-family:sans-serif; font-size:14px; line-height:17px; background-color:rgb(242,242,242)">ac-&#62;"&#160;</span><br style="color:rgb(51,51,51); font-family:sans-serif; font-size:14px; line-height:17px; background-color:rgb(242,242,242)"><span style="color:rgb(51,51,51); font-family:sans-serif; font-size:14px; line-height:17px; background-color:rgb(242,242,242)">rbact-&#62;rt</span><br></p>

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<p>The key point is in-place and iteration once.</p>

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<p><pre code\_snippet\_id="156574" snippet\_file\_name="blog\_20140114\_1\_1931795"

name="code" class="cpp">int eliminate( char\* p)

{  
int deleted = 0;  
if (! p )  
return deleted;

while (\*p){  
if (\*p == 'b')  
deleted++;  
else if ( ( \*p == 'a' ) &#38;&#38; ( \*(p+1) == 'c')){  
deleted += 2;  
p++;  
}

else if ( deleted &#62; 0 )

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*(p-deleted) = *p;
p++;
}
*(p-deleted) = '\0';
return deleted;
}
```

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