Remove Adjancent duplicates from string

```
#include <stdio.h>
#include <string.h>
#include <stdlib.h>
char* removeDuplicates(char *str, char *lastRemoved)
       char *removeStr;
       //return string if length is either 1 or 0
       if( (str[0] == '\0') || (str[1] == '\0') )
              return str;
       if(str[0] == str[1])
              *lastRemoved = str[0];
              while(str[1] \&\& str[0] == str[1])
                      str++;
              return removeDuplicates(++str, lastRemoved);
       removeStr = removeDuplicates(str+1, lastRemoved);
       if( removeStr[0] && removeStr[0] == str[0])
               *lastRemoved = str[0];
              return (removeStr+1);
       if( removeStr == \0' && *lastRemoved == str[0])
              return removeStr;
       removeStr--;
       removeStr[0] = str[0];
       return removeStr;
}
int main()
       char str[100];
       printf("Enter Binary string");
       scanf("%s", str);
       char lastRemoved = '\0';
       printf("%s", removeDuplicates(str, &lastRemoved));
       return 0;
}
Time complexity: O(n)
Space complexity: O(1)
```