

Day - 79Recursion - 6* Check Palindrome:

⇒

```

bool checkPal (string str, int start, int end) {
    if (start >= end)
        return 1;
    if (str[start] != str[end])
        return 0;
    return checkPal (str, start+1, end-1);
}

```

* Check vowels

```

int count (string str, int index) {
    if (index == -1)
        return 0;
    if (str[index] == 'a' || str[index] == 'e' || str[index] == 'i' ||
        str[index] == 'o' || str[index] == 'u')
        return 1 + count (str, index-1);
    else
        return count (str, index-1);
}

```

* Reverse a string → end

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Ex:

start ← Rohit
 ← ahir
 start ↑ end
 ti har
 ↑
 end
 start

Date: / /

Page:

```

void rev (string &str, int start, int end) {
    if (start >= end)
        return;
    char c = str[start];
    str[start] = str[end];
    str[end] = c;
    rev (str, start+1, end-1);
}

```

* Lower case to Uppercase:

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no hit
↓

$$\text{char } c = 'A' + \underbrace{'n' - 'a'}_{17}$$

 ↓
 'R' 'A' + 17
 82

```

⇒ void lowerToUpper (string &str, int index) {
    if (index == -1)
        return;
    str[index] = 'A' + str[index] - 'a';
    lowerToUpper (str, index-1);
}

```