

2/5/24 Lecture 4 Repeated Substring pattern

bool repeatedSubstringPattern(char* s)

```

{
    int n = strlen(s);
    for(int i = 1; i <= (n/2); i++)
    {
        if(n%i == 0)
        {
            int flag = 1;
            for(int j = i; j < n; j++)
            {
                if(s[j] != s[j%i])
                {
                    flag = 0;
                    break;
                }
            }
            if(flag == 1)
            {
                return true;
            }
        }
    }
    return false;
}

```

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Case 1
s = "abab"
Output: true

Case 2
s = "abba"
Output: false

Case 3

s = "abcabcabcabc"

Output: true