

# Mini Teste 2

## 2023/2024

### Pergunta 1

Qual é a soma das frequências dos caracteres 'f', 'l' e 't' na seguinte string (array de caracteres)?

```
char *sequencia = "NaBTLkfXatyWD3wN5MPqqFwT1QgPXXKADAZvGqyORgA"  
"H3UQihu4EqaLAsDJlvSHSCROaHnsNOW1n2sk1PBkQ0FNJyt1WJoMB0fdZKas"  
"2IhCr1SpyPtcMXCH6oAc0ASZUaBIrFhJ9NW9TkPvKLDSVAo0W5gW9Vo5yF3b"  
"4bDrNDK9PWULf6980bSZJivtz6WzNrViWSkwYdJVuB9D96uadQD9uPs3tpT8"  
"yLEwLqgtYRzCQC36L96MHZ3brBJ6s8XDRC3qvZc00tGb2n11Cr19N20vhrL0"  
"qDbE1kr92kBTv8ezFHCdxdkFUZPT1769yaXHWxrpKxqZdo4G0ovRYKVbhyf9"  
"8y09oWVCyaE07nnFH7LDnypMtuS1dtpqjuhRq6xFJbpBURK5mtG1qQCOH9gK"  
"ujBwGKlJaLjq6WHVQyra3jCCRTwiCHIjF1RwTknINau47yS2ePjy0AUag7Bi"  
"JTjgppoUJN7iAkEwNfxeCUZoH73LTRexVdbjT8JqPF6CcUJTmFZm9phkPsmH"  
"kmQzxRoDWVwSVOXj9g5NdPg05LxdybHhULOGE9t1INLZAwmJnCELryci19h7"  
"kG3t9HemzUzvi300vgUYLcIihza8EpIptHD0g0IbijtnkYdDuH1X4qdaGWSF"  
"WdNjrcUYtZNQWDh1WqBkI1ZHPR5Y2wngUsn2S1kzzLThUTZgGdnMYo4MA5LM"  
"s45pTmtsNd2SholegyboX9U0gVymkLzJUXwTSSVLRBssRNpK3yenQelwDFXH"  
"QS52yeTf935b0CQQUEeACYxR3wgveJqWySKKugU9a8d9tLSqDf6HNQ6rhXey"  
"Se32hqwUsEOqLmHLGkdcnDaRd61zHv7wOC0Fdoha05bI3WyRDkY42KdVm2zu"  
"bGwMLuWCojx31AjCmS7vvXfS2sGZv8W1TH5wFCuQThz8RjiAWv7TnoUXWGsm"  
"XLtTKNjknjIIId0VD3sKDsm7NZM7DHCxwac0bgygkVcdlMRFcpiGhkKwohBIT"  
"ehqGY5YXjdr3keLhf6giC1";
```

Resposta: 39

## Pergunta 2

Qual é a substring de 5 caracteres com menor valor lexicográfico na seguinte sequência de caracteres (string)?

Por exemplo, na sequência "01aInformatica", ao utilizar 3 caracteres consecutivos, encontramos as seguintes substrings: ["01a", "1aI", "aIn", "Inf", "nfo", "for", "orm", "rma", "mat", "ati", "tic", "ica"]. Portanto, a resposta correta é "Inf", por possuir menor valor lexicográfico.

```
char *sequencia = "NY7diLIIWXHRY2HNG0hJXmxRT5eUrnSLV6RNDdIaWI"  
"5XhGqhZrWem9Xr9M2RDDjGIsj800X2s8muvjCPKwx4yUqK8QKq3DXyQqnW5b"  
"vp1GL7dTZ3sPYEcFFdr8kV5kJ2TAVaQzMDDAN1f23egBN1hdqXLFQwcwddJf"  
"1tKhe5RwvteyEpKQF4F8T0k028UIj6GqE1aGb739Lp4IoxB77EAeNc5oeB4k"  
"11oanSHWXUmQZ0XTC8MGFhljHwTTWgyMco9ZAbdQSp5XRWibTEJC9Z4Rbb4w"  
"EISvQToRNFXCXo1MYaiVa26xeZDULLkaVZNVCKS31qNbEH9ZnN2IpW5cx0PX"  
"8oWB8n7dopXna7w2TXaU1t7lsMe7QXoFdXvCWJ7XUC97ePJP8X3WUXnwYT3K"  
"7pWT1bINLKKgTKUIdm42DvI1IqgVddOTKJwceeBw5WXqlzitzizYVq9Cqlk9"  
"nzVR7qfwvuR0rYUEW5gCB6pkitPIUGFYmECbv112vr8iyffiIjIK9o2TxDF0"  
"opJwbLtzsryDRgscnDv6bqvjgcG1kHXffe13156kJHPZHPBoJL9EzboM0FBB"  
"elqn7Mrnr56sDN0gDAmryDR412UZ0xqOeZFLFovRMXo3NKV24GHvNKw1ZPao"  
"AAQ1F2rwnBxRTY3iy5LdcxsB0VSPMadtSTn6x0j1zlatR8Gy8cizwdqBJ9w5"  
"SXaC5BolvTh1gY8F3DHt43iNzQgdoEUGssjul7a5HmQ4AwuMBOLwbsuNhKzY"  
"AJkNSHaRPH3Kp0irzVVRDnyeKzYk9Uzt5RnZYtGhKvoK70KnGRznnzT0DibTQ"  
"TLIAPduRnrkmtfAKttrmyLFpSPjR9B6dTAJP8v0qe1b2Y1cqjz3eiUeUh80t"  
"1SIrL8ZW92Lks0qrY3Ge1qIYLcTzVC2quzoh95xX2NmWiQSUBHOJfAeqSnPP"  
"bxHZfyWOGkfKGyAGtal05pD8xbSUbSFFOVCrnV1bDqnlww1Nu889cwIRKj2g"  
"2KzJBR9I4ZD0ukUT80ylkC";
```

Resposta: "00X2s"