

```
const c =
'EELHLJNXJHUSYKUFTLWWQEHCUUELQZUFLQUUZOUHNMYPNPFZIILOUHFNPNTGUURCGYUSCE0BUZFL0DITAJGYPKVRWJISUWJZFNXGUT
IYUVGOLVPIRYGYTTYWUEDLKAUEXKCJSCQUBUMWTBNXGYPSNHYPNPFPVYTSVSNNGVDXERFNMKJIELPZJEXKLMEVGUTMCVAFPLPGYTOL
IBOGXGYPNHYPNNOPTYNZEELBDFINGUEIPKZJOHGPFVYTDVNXFAFNQGYEEHUVGOLVCPNXGYGRIPABBAGGPGYPZJEMQSMELKUFULGT
IAORARUUTAJELXLSSITNUUHFIFHUPKFLNLYSDYPBNEOTLTTYSNVABBTTIWLJLSNME0JCEGUXILGBDHXXKLBCBVLEIPKZJOHFLSSOGKGR
IPABLMXLSSNCLSKOPNCEXGULEHUPFDUUKFRZCSMDYTVTTZTVOTATVTSYHVMGYPMVELFHTLUPKIAVGUXILFKJEMFHSFHKJITAGZDHYJ
LODCGOBUJVZURYKANAWJAEEMHLJNXGZCEZKUEENVDPDHHWY00WJCJELUHHMOHFRME0FEHVMFRHVKJETGPUECNA';
```

```
const createFrequencyAnalysis = (cipherText, keyLength) => {
  const frequenciesObj = [];
  for (let i = 0; i < keyLength; i++) {
    frequenciesObj[i] = {};
    for (let j = 0; j < Math.floor(cipherText.length / keyLength); j++) {
      const char = cipherText[i + keyLength * j];
      frequenciesObj[i][char] = frequenciesObj[i][char] ? frequenciesObj[i][char] + 1 : 1;
    }
  }
  const frequencies = [];
  frequenciesObj.forEach((frequency) => {
    frequencies.push(Object.keys(frequency)
      .map((key) => [key, frequency[key]])
      .sort((a, b) => b[1] - a[1])
      .map((e) => {
        e.push((e[1] / Object.values(frequency).reduce((acc, cur) => acc + cur, 0)) * 100);
        return e;
      }));
  });
  const maxCharAmount = frequencies.reduce((acc, cur) => Math.max(acc, cur.length), 0);
  frequencies.forEach((e) => {
    while (e.length < maxCharAmount) {
      e.push(['', 0, 0]);
    }
  });
  const masterFrequencies = [];
  for (let i = 0; i < maxCharAmount; i++) {
    masterFrequencies.push(
      frequencies
        .map((e) => e[i][2])
        .reduce((acc, cur) => acc + cur) / frequencies.length,
    );
  }

  console.log('Schlüssel der Länge', keyLength);
  console.log(masterFrequencies);
  console.log(frequencies);
};
```

// Grossbuchstaben: ASCII 65-90

```
const decrypt = (cipherText, key) => {
  let decrypted = '';
  let keyPosition = 0;
  for (let i = 0; i < cipherText.length; i++) {
    // console.log();
    // console.log(cipherText[i], cipherText.charCodeAt(i));
    // console.log(key[keyPosition], key.charCodeAt(keyPosition) - 65);
    let nextCode = cipherText.charCodeAt(i) - (key.charCodeAt(keyPosition) - 65);
    // console.log(nextCode);
    if (nextCode > 90) {
      nextCode -= 26;
    }
    if (nextCode < 65) {
      nextCode += 26;
    }
  }
}
```

```

    }
    // console.log(nextCode);
    // console.log(nextCode);
    // console.log(String.fromCharCode(nextCode));
    decrypted += String.fromCharCode(nextCode);
    keyPosition = (keyPosition + 1) % key.length;
}
console.log(decrypted);
};

// for (let i = 1; i <= 10; i++) {
//     createFrequencyAnalysis(c, i);
// }

// createFrequencyAnalysis(c, 5);

decrypt(c, 'BAUCH');

/*

Version 1:
Ciphertext:
EEWHL0DBCATECKUFTLWWQEHCUUEWQZUFLQUUZOUHNMYPNFZIILOUHRPNTGUURCGYUSCE0BUZFL0DITAJGYPKVRWJISUWJYFNXGUUI
YUVG0LVPIRYGYTTYWUEDLKAUEXKCJSCQUBUMWTBNXGYPSNHYPNNFPFVYTSVSNGGVDXERFNMKJIELPZJEXKLMVVGUTMCVAFLPGYTOLI
BOGXGYPSNHYPNNOPUTYNZEELBDFINGUEIPKZJOHFPFVYTDVNXFAFNQGYEEHUVGOLVBPXGYGRIPAZBAGGPGYPZJEMQSMHKUFULGTI
AORARUUTAJELXLSSITNUUHFIFHUPKFLNYLSDYPBNEOTLTTYNSVNABBTIWJLSNME0JCEGUXILGADHXXLBCBVLEIPKZJOHFLSSOGKGRI
PABLMXLSSNCLSKOPNCEXGULEHUPFDUUKFRZCSDYTVTTZTVPTATVTSYHVMGYPMVELFHTLUPKIAVGUXILFKJEMFHSFHKJITAGZDHYJL
ODCG0BUJVZURYKANAWJAEEMHLJNXGZCEZKUEENUPDHHWY00WJCJELUHHEM0HFRME0FEHVMFRHVKJETGPUECNA

```

Für verschiedene Schlüssel-Längen die Wahrscheinlichkeit aller Buchstaben des n-ten Zeichen des Schlüssels nehmen. Dann jeweils der Durchschnitt der n-häufigsten Wahrscheinlichkeiten nehmen, sortieren und ausgeben:

Schlüssel der Länge 1

```

[
  7.226890756302522, 6.722689075630252,
  5.714285714285714, 5.546218487394958,
  5.042016806722689, 4.873949579831933,
  4.873949579831933, 4.873949579831933,
  4.705882352941177, 4.53781512605042,
  3.865546218487395, 3.865546218487395,
  3.5294117647058822, 3.5294117647058822,
  3.5294117647058822, 3.361344537815126,
  3.361344537815126, 2.857142857142857,
  2.857142857142857, 2.689075630252101,
  2.5210084033613445, 2.5210084033613445,
  2.1848739495798317, 2.1848739495798317,
  2.0168067226890756, 1.0084033613445378
]

```

Schlüssel der Länge 2

```

[
  7.239057239057239, 6.7340067340067336,
  5.892255892255893, 5.892255892255893,
  5.723905723905724, 5.218855218855218,
  5.05050505050505, 5.05050505050505,
  4.377104377104377, 4.208754208754209,
  4.040404040404041, 3.872053872053872,
  3.7037037037037033, 3.7037037037037033,
  3.3670033670033668, 3.3670033670033668,
  3.0303030303030303, 2.6936026936026933,
  2.6936026936026933, 2.525252525252525,
  2.356902356902357, 2.1885521885521886,

```

2.0202020202020203, 2.0202020202020203,
2.0202020202020203, 1.01010101010101

]

Schlüssel der Länge 3

[

8.417508417508417, 6.228956228956229,
5.892255892255892, 5.892255892255892,
5.387205387205387, 5.387205387205387,
5.050505050505051, 4.882154882154882,
4.377104377104377, 4.377104377104377,
4.2087542087542085, 4.2087542087542085,
3.872053872053872, 3.7037037037037037,
3.535353535353535, 3.1986531986531985,
3.03030303030303, 2.8619528619528616,
2.356902356902357, 2.356902356902357,
2.356902356902357, 2.0202020202020203,
2.0202020202020203, 2.0202020202020203,
1.3468013468013467, 1.0101010101010102

]

Schlüssel der Länge 4

[

8.108108108108109, 7.094594594594595,
6.587837837837838, 6.25,
5.743243243243244, 5.405405405405405,
5.0675675675675675, 4.5608108108108105,
4.5608108108108105, 4.5608108108108105,
4.391891891891892, 4.054054054054054,
3.547297297297298, 3.3783783783783785,
3.3783783783783785, 3.2094594594594597,
3.0405405405405403, 2.871621621621622,
2.7027027027027026, 2.5337837837837838,
2.364864864864865, 2.027027027027027,
1.8581081081081081, 1.3513513513513513,
0.8445945945945945, 0.5067567567567568

]

Schlüssel der Länge 5

[

16.302521008403364, 10.756302521008404,
9.243697478991598, 8.403361344537815,
7.394957983193278, 6.554621848739496,
6.050420168067227, 5.378151260504202,
4.53781512605042, 3.8655462184873954,
3.5294117647058827, 3.361344537815126,
3.025210084033614, 2.1848739495798317,
1.8487394957983194, 1.680672268907563,
1.680672268907563, 1.3445378151260505,
1.0084033613445378, 1.0084033613445378,
0.5042016806722689, 0.33613445378151263

]

Schlüssel der Länge 6

[

8.754208754208754, 7.575757575757577,
6.902356902356902, 6.060606060606061,
5.555555555555556, 5.3872053872053876,
4.882154882154882, 4.882154882154882,
4.545454545454546, 4.2087542087542085,
4.040404040404041, 3.8720538720538724,
3.8720538720538724, 3.535353535353536,
3.367003367003367, 3.198653198653199,
3.198653198653199, 2.6936026936026938,
2.356902356902357, 2.356902356902357,
2.0202020202020203, 1.851851851851852,

1.6835016835016836, 1.5151515151515154,
1.0101010101010102, 0.6734006734006734

]

Schlüssel der Länge 7

[

9.91596638655462,	7.731092436974791,
6.890756302521008,	6.386554621848739,
6.218487394957983,	5.546218487394958,
5.2100840336134455,	4.705882352941177,
4.705882352941177,	4.537815126050421,
4.201680672268908,	4.033613445378151,
3.8655462184873945,	3.529411764705882,
3.361344537815126,	3.025210084033614,
2.857142857142857,	2.521008403361345,
2.184873949579832,	1.8487394957983196,
1.8487394957983196,	1.8487394957983196,
1.3445378151260503,	1.1764705882352942,
0.33613445378151263,	0.16806722689075632

]

Schlüssel der Länge 8

[

9.966216216216218,	8.277027027027028,
7.263513513513514,	6.587837837837838,
6.081081081081081,	5.574324324324323,
5.405405405405404,	5.0675675675675675,
4.898648648648648,	4.72972972972973,
4.054054054054055,	3.885135135135136,
3.885135135135136,	3.378378378378378,
2.871621621621621,	2.702702702702702,
2.5337837837837833,	2.5337837837837833,
2.3648648648648645,	2.0270270270270268,
1.689189189189189,	1.3513513513513513,
1.1824324324324322,	1.0135135135135134,
0.5067567567567568,	0.16891891891891891

]

Schlüssel der Länge 9

[

10.26936026936027,	8.417508417508419,
7.744107744107745,	6.565656565656567,
6.060606060606061,	5.892255892255893,
5.892255892255893,	5.050505050505051,
4.7138047138047146,	4.545454545454546,
4.377104377104377,	3.703703703703704,
3.198653198653199,	3.0303030303030307,
3.0303030303030307,	2.8619528619528625,
2.8619528619528625,	2.1885521885521886,
1.851851851851852,	1.5151515151515154,
1.5151515151515154,	1.5151515151515154,
1.3468013468013469,	1.0101010101010102,
0.6734006734006734,	0.16835016835016836

]

Schlüssel der Länge 10

[

16.779661016949152,	11.35593220338983,
10.169491525423728,	8.47457627118644,
7.288135593220336,	6.949152542372879,
5.762711864406779,	5.254237288135593,
4.745762711864407,	4.237288135593221,
3.8983050847457625,	3.2203389830508464,
2.71186440677966,	2.5423728813559316,
2.0338983050847452,	1.6949152542372876,
1.35593220338983,	1.0169491525423726,

0.3389830508474576, 0.1694915254237288

]

=> Schlüssel der Länge 5.

Wahrscheinlichkeiten der Buchstaben bei Schlüssellänge 5

(der Buchstaben, die jeweils mit dem n-ten Buchstaben des Schlüssels verschlüsselt werden.):

Format: [Zeichen im ciphertext, Anzahl Vorkommnisse, Anteil am Text]

[

[

```
[ 'F', 17, 14.285714285714285 ],
[ 'J', 12, 10.084033613445378 ],
[ 'U', 10, 8.403361344537815 ],
[ 'E', 9, 7.563025210084033 ],
[ 'T', 9, 7.563025210084033 ],
[ 'P', 8, 6.722689075630252 ],
[ 'S', 8, 6.722689075630252 ],
[ 'O', 6, 5.042016806722689 ],
[ 'B', 6, 5.042016806722689 ],
[ 'V', 6, 5.042016806722689 ],
[ 'I', 5, 4.201680672268908 ],
[ 'G', 4, 3.361344537815126 ],
[ 'M', 4, 3.361344537815126 ],
[ 'N', 3, 2.5210084033613445 ],
[ 'D', 3, 2.5210084033613445 ],
[ 'X', 2, 1.680672268907563 ],
[ 'C', 2, 1.680672268907563 ],
[ 'Q', 1, 0.8403361344537815 ],
[ 'Z', 1, 0.8403361344537815 ],
[ 'R', 1, 0.8403361344537815 ],
[ 'L', 1, 0.8403361344537815 ],
[ 'H', 1, 0.8403361344537815 ]
```

],

[

```
[ 'E', 26, 21.84873949579832 ],
[ 'N', 12, 10.084033613445378 ],
[ 'R', 9, 7.563025210084033 ],
[ 'S', 9, 7.563025210084033 ],
[ 'D', 8, 6.722689075630252 ],
[ 'U', 8, 6.722689075630252 ],
[ 'T', 7, 5.88235294117647 ],
[ 'I', 7, 5.88235294117647 ],
[ 'O', 6, 5.042016806722689 ],
[ 'G', 4, 3.361344537815126 ],
[ 'L', 4, 3.361344537815126 ],
[ 'H', 4, 3.361344537815126 ],
[ 'A', 3, 2.5210084033613445 ],
[ 'F', 2, 1.680672268907563 ],
[ 'Z', 2, 1.680672268907563 ],
[ 'M', 2, 1.680672268907563 ],
[ 'V', 2, 1.680672268907563 ],
[ 'C', 2, 1.680672268907563 ],
[ 'B', 1, 0.8403361344537815 ],
[ 'K', 1, 0.8403361344537815 ],
[ ' ', 0, 0 ],
[ ' ', 0, 0 ]
```

],

[

```
[ 'Y', 16, 13.445378151260504 ],
[ 'L', 14, 11.76470588235294 ],
```

```
[ 'H', 12, 10.084033613445378 ],
[ 'X', 11, 9.243697478991598 ],
[ 'M', 9, 7.563025210084033 ],
[ 'N', 9, 7.563025210084033 ],
[ 'W', 7, 5.88235294117647 ],
[ 'C', 7, 5.88235294117647 ],
[ 'O', 5, 4.201680672268908 ],
[ 'I', 5, 4.201680672268908 ],
[ 'Z', 4, 3.361344537815126 ],
[ 'A', 4, 3.361344537815126 ],
[ 'U', 4, 3.361344537815126 ],
[ 'P', 3, 2.5210084033613445 ],
[ 'B', 2, 1.680672268907563 ],
[ 'T', 2, 1.680672268907563 ],
[ 'V', 2, 1.680672268907563 ],
[ 'Q', 1, 0.8403361344537815 ],
[ 'E', 1, 0.8403361344537815 ],
[ 'J', 1, 0.8403361344537815 ],
[ '', 0, 0 ],
[ '', 0, 0 ]
],
[
[ 'G', 23, 19.327731092436977 ],
[ 'K', 12, 10.084033613445378 ],
[ 'P', 11, 9.243697478991598 ],
[ 'F', 10, 8.403361344537815 ],
[ 'T', 9, 7.563025210084033 ],
[ 'U', 7, 5.88235294117647 ],
[ 'V', 7, 5.88235294117647 ],
[ 'J', 6, 5.042016806722689 ],
[ 'H', 5, 4.201680672268908 ],
[ 'C', 4, 3.361344537815126 ],
[ 'W', 4, 3.361344537815126 ],
[ 'Q', 4, 3.361344537815126 ],
[ 'E', 4, 3.361344537815126 ],
[ 'N', 3, 2.5210084033613445 ],
[ 'I', 2, 1.680672268907563 ],
[ 'O', 2, 1.680672268907563 ],
[ 'B', 2, 1.680672268907563 ],
[ 'X', 2, 1.680672268907563 ],
[ 'R', 1, 0.8403361344537815 ],
[ 'Y', 1, 0.8403361344537815 ],
[ '', 0, 0 ],
[ '', 0, 0 ]
],
[
[ 'L', 15, 12.605042016806722 ],
[ 'U', 14, 11.76470588235294 ],
[ 'A', 13, 10.92436974789916 ],
[ 'Y', 11, 9.243697478991598 ],
[ 'Z', 9, 7.563025210084033 ],
[ 'K', 7, 5.88235294117647 ],
[ 'P', 7, 5.88235294117647 ],
[ 'V', 6, 5.042016806722689 ],
[ 'H', 5, 4.201680672268908 ],
[ 'O', 4, 3.361344537815126 ],
[ 'S', 4, 3.361344537815126 ],
[ 'B', 4, 3.361344537815126 ],
[ 'N', 3, 2.5210084033613445 ],
[ 'R', 2, 1.680672268907563 ],
[ 'I', 2, 1.680672268907563 ],
[ 'C', 2, 1.680672268907563 ],
```

```
[ 'T', 2, 1.680672268907563 ],
[ 'G', 2, 1.680672268907563 ],
[ 'J', 2, 1.680672268907563 ],
[ 'D', 2, 1.680672268907563 ],
[ 'M', 2, 1.680672268907563 ],
[ 'W', 1, 0.8403361344537815 ]
]
]
```

=> Verschiebungen um [1, 0, 20, 2, 7]

=> Schlüssel: BAUCH.

=> Klartext:

DECFENDHATSEIINETRUPPENANDECOSTFRONTZUSAMMENGEZOGENUNDKONZENTRIERTSICHAUFDENDORTIGENDURCHBRUCHREN
DENTIESOFORTIHREERSTEUNDDRITTEDIVISIONAUSUMANDEROSTFRONTDIEVERLUSTEZUDDCKENSICHERNSIEDIE
LEBENSMITTELVERSORGUNGDEROSTFRONTMITTELSDERZWEITENDIVISIONDIEVERWUNDDTENWERDENSOFORTUONDERFRONT
YBGEZOGENSIESOLLENINEUREMHAUPTQUARTIERVERSORGTUNDBEHANDELTWERDENUMEURESTELLUNGZUSICHERNSCHICKEN
WIRETCHDIEACHTEDIVISIONDERSUEDFRONTALSVERSTAERKUNGBEDENKENSIEDASDERFALLDEROSTFROOTGROSSEFOLGEN
FUERDASLANDHABENWIRDDIESDARFNICHTGESCHEHENDIEHAUPTSTREITMACHTDESFEINDESBEFINDETSICHNURNOCH
VIERSAGESMAERSCHEENTFERNTDIEZEITEILT
*/

/*
Version 2:

Ciphertext:

EELHLJNXJHUSYKUFTLWWQEHCUUELQZUFLQUUZOUHNMYPNFZIILOUHRPNTGUURCGYUSCE0BUZFL0DITAJGYPKVRWJISUWJZFNXGUTI
YUVGOLVPIRYGYTTYWUEDLKAUEXKCJSCQUBUMWTBNXGYPSNHYPNPFVYTSVSNNGVDXERFNMKJIELPZJEXKLMVGGUTMCVAFLPGYTOLI
BOGXGYPSNHYPNNOPUTYNZEELBDFINGUEIPKZJOHGPFVYTDVNXFAFNQGYEEHUVGOLVCPNXGYGRIPABBAGGPGYPZJEMQSMHKUFULGTI
AORARUUTAJELXLSSITNUUHFIFHUPKFLNYLSDYPBNEOTLTTYNSVNABBTIWJLSNME0JCEGUXILGBDHXKLBCBVLEIPKZJOHFLSSOGKGRI
PABLMXLSSNCLSKOPNCEXGULEHUPFDUUKFRZCSMDYTVTTZTVOTATVTSYHVMGYPMVELFHTLUPKIAVGUXILFKJEMFHSFHKJITAGZDHYJL
ODCG0BUJVZURYKANAWJAEEMHLJNXGZCEZKUEENVDPHHWY00WJCJELUHHEM0HFRME0FEHVMFRHVKJETGPUECNA

Schlüssel der Länge 1

```
[
  7.0588235294117645, 6.5546218487394965,
  6.050420168067227, 5.714285714285714,
  5.2100840336134455, 4.873949579831933,
  4.705882352941177, 4.705882352941177,
  4.705882352941177, 4.705882352941177,
  4.033613445378151, 3.865546218487395,
  3.865546218487395, 3.697478991596639,
  3.5294117647058822, 3.361344537815126,
  3.0252100840336134, 2.857142857142857,
  2.689075630252101, 2.689075630252101,
  2.689075630252101, 2.5210084033613445,
  2.1848739495798317, 2.0168067226890756,
  1.680672268907563, 1.0084033613445378
]
```

Schlüssel der Länge 2

```
[
  7.239057239057239, 6.7340067340067336,
  6.0606060606060606, 5.723905723905724,
  5.723905723905724, 5.387205387205387,
  5.218855218855218, 5.05050505050505,
  4.545454545454545, 4.208754208754209,
  4.040404040404041, 3.872053872053872,
  3.7037037037037033, 3.7037037037037033,
  3.535353535353535, 3.1986531986531985,
  2.8619528619528616, 2.6936026936026933,
  2.6936026936026933, 2.6936026936026933,

```

2.1885521885521886, 2.1885521885521886,
2.0202020202020203, 2.0202020202020203,
1.6835016835016834, 1.01010101010101

]

Schlüssel der Länge 3

[

8.24915824915825, 6.565656565656565,
5.892255892255892, 5.5555555555555545,
5.5555555555555545, 5.5555555555555545,
5.218855218855219, 4.882154882154882,
4.545454545454546, 4.377104377104377,
4.377104377104377, 4.040404040404041,
3.872053872053872, 3.535353535353535,
3.3670033670033668, 3.03030303030303,
3.03030303030303, 2.6936026936026933,
2.6936026936026933, 2.356902356902357,
2.356902356902357, 2.1885521885521886,
2.0202020202020203, 1.8518518518518519,
1.1784511784511784, 1.0101010101010102

]

Schlüssel der Länge 4

[

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