Петрова Анастасия , группа ТП-181

**Задание 19-11-2021**

Открытый текст: “ I was made for lovin you baby “ (без пробелов и кавычек)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| А | Б | В | Г | Д | Е | Ё | Ж | З | И | Й | К | Л | М | Н | О | П | Р | С | Т | У | ф | Х | Ц | Ч | Ш | Щ | Ъ | Ь | Э | Э | Ю | Я |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |

**Пример 1. Подстановка алфавита для шифрования заменой**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Алфавит исходного текста | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| Алфавит шифр текста | А | Б | В | Г | Д | Е | Ё | Ж | З | И | Й | К | Л | М | Н | О | П | Р | С | Т | У | ф | Х | Ц | Ч | Ш |

Шифртекст: ЗХАСЛАГДЕНРЛНФЗМЧНУБАБД

**Пример 2. Подстановка шифра Виженера**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| I | W | A | S | M | A | D | E | F | O | R | L | O | V | I | N | Y | O | U | B | A | B | Y |
| К | Л | Ю | Ч | И | К | К | Л | Ю | Ч | И | К | К | Л | Ю | Ч | И | К | К | Л | Ю | Ч | И |

9+12(mod33)= 21 – У

23+13(mod33)= 3 – В

1+32(mod33) =33 – Я

19+ 25(mod33)= 11 - Й

13+10(mod33)= 23- Х

1+ 12(mod33)= 13- Л

4+12(mod33)= 16 – О

5+13(mod33)= 18 – Р

6+32(mod33)= 5- Д

15 + 25(mod33)= 7- Ё

18+10(mod33)= 28 – Ъ

12+12(mod33)= 24 – Ц

15+12(mod33)= 27 – Щ

22+13(mod33)= 2 – Б

9+32(mod33)= 8 - Ж

14+25(mod33)= 6- Е

25+10(mod33)= 2 - Б

15+12(mod33)= 27 - Щ

21+12(mod33)= 33 - Я

2+13(mod33) = 15- Н

1+ 32(mod33) = 33 –Я

2+ 25(mod33) = 27 –Щ

25+10(mod33) = 2- Б

ШИФРТЕКСТ: УВЯЙХЛОРДЁЪЦЩБЖЕБЩЯНЯЩБ

**Пример 3. Подстановка алфавита гомофонической замены**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z |
| 16 | 28 | 36 | 48 | 74 | 65 | 81 | 29 | 19 | 43 | 75 | 25 | 59 | 13 | 20 | 04 | 35 | 53 | 27 | 08 | 12 | 23 | 46 | 73 | 62 | 24 |
| 41 | 64 | 78 | 56 | 17 | 34 | 50 | 80 | 58 | 85 | 33 | 49 | 07 | 39 | 52 | 44 | 60 | 68 | 77 | 32 | 72 | 91 | 02 | 30 | 88 | 83 |
| 57 | 05 | 86 | 79 | 42 | 92 | 06 | 66 | 87 | 51 | 18 | 76 | 93 | 67 | 89 | 45 | 84 | 09 | 54 | 61 | 38 | 69 | 90 | 55 | 11 | 70 |

Шифртекст : 19 46 16 27 59 41 48 74 65 20 53 25 52 23 58 13 62 89 28 57 64 88

**Пример 4. Шифрование с автоключом при использовании криптограммы**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **I** | **W** | **A** | **S** | **M** | **A** | **D** | **E** | **F** | **O** | **R** | **L** | **O** | **V** | **I** | **N** | **Y** | **O** | **U** | **B** | **A** | **B** | **Y** |
| **K** | **L** | **U** | **C** | **H** | **I** | **W** | **A** | **S** | **M** | **A** | **D** | **E** | **F** | **O** | **R** | **L** | **O** | **V** | **I** | **N** | **Y** | **O** |
| **20** | **35** | **22** | **22** | **21** | **10** | **27** | **6** | **25** | **28** | **19** | **16** | **20** | **28** | **24** | **32** | **37** | **30** | **43** | **11** | **15** | **27** | **40** |
| **T** | **I** | **V** | **V** | **U** | **J** | **A** | **F** | **Y** | **B** | **S** | **P** | **T** | **B** | **X** | **F** | **K** | **D** | **Q** | **K** | **O** | **A** | **N** |