

Alice: Eve said if we didn't help her she'd "hack" us

Bob: No chance lol Eve can barely use a computer

Alice: alr but I just wanna be sure... DHKE?

Bob: kk

Alice: 100007

Bob: that's not prime lmao

Alice: shoot... 1000000007

Bob: 16?

Alice: doesn't work

Bob: 17?

Alice: sure ok

Bob: alr my public key is 380756154

Alice: mine's 953268395

Bob: oki

Alice: got the key?

Bob: ya but what are we doing with it lol

Alice: split it up 3 digits:2 digits:2 digits:2 digits and convert to ascii chars (should be 4 char key)

Alice: then just xor with that key using <https://www.dcode.fr/xor-cipher>

Alice: make sure you set "results format" to "decimal" for encoding so non-printables don't mess it up

Alice: for decoding you can just enter the numbers I send directly, no need to convert them to ascii before xor-ing

Alice: key is short but dw... Eve's not gonna be able to figure it out w/o writing code anyhow which I know she can't do

Bob: damn lmao

Alice: alr here's a test; should be flag formatted:

Alice: 10 56 41 71 23 53 37 69 30 61 43 65 2 11 56 83 21 55 32 79 51 54 61 82 11 49 58 83 51 49 57 85  
13 32 33 79 2 41

Bob: yup looks good

Alice: nice

Alice: 9 34 45 0 7 49 45 80 31 116 41 83 7 61 38 71 76 57 45 0 10 59 58 0 4 49 36 80 76 35 103 0 24 60  
45 0 14 33 58 71 9 38 104 69 29 33 41 84 5 59 38 0 3 58 45

Bob: 0 59 36 0 37 116 60 79 0 48 104 72 9 38 104 84 3 116 44 82 3 36 104 84 4 49 104 67 0 53 59 83 76  
39 32 69 76 48 33 68 2 115 60 0 9 34 45 78 76 32 41 75 9 116 123 19 46

Alice: 37 32 111 83 76 58 39 84 76 49 62 69 2 116 34 85 31 32 104 84 4 53 60 14 66 122 104 83 4 49 111  
83 76 56 33 75 9 116 38 79 24 116 45 86 9 58 104 77 13 63 33 78 11 116 41 78 76 49 46 70 3 38 60

Alice: 37 115 44 0 14 49 104 70 5 58 45 0 4 49 36 80 5 58 47 0 4 49 58 0 5 50 104 83 4 49 104 84 30 61  
45 68 76 54 61 84 76 39 32 69 75 39 104 74 25 39 60 0 31 32 58 65 5 51 32 84 76 33 56 0 13 39 35 73 2  
51 104 70 3 38 104 65 2 39 63 69 30 39

Bob: 24 38 61 69 76 32 58 85 9 116 60 72 9 38 45 7 31 116 45 86 9 58 104 86 5 48 45 79 31 116 39 78 0  
61 38 69 76 50 39 82 76 32 32 69 76 36 58 79 14 56 45 77 76 60 60 84 28 39 114 15 67 35 63 87 66 45 39  
85 24 33 42 69 66 55 39 77 67 35 41 84 15 60 119 86 81 97 18 82 27 44 25 82 90 53 30 20

Alice: 5 63 58 1 76 53 38 89 4 59 39 0 31 36 45 65 7 61 38 71 76 59 46 0 26 61 44 69 3 39 100 0 15 60 45  
67 7 116 39 85 24 116 60 72 5 39 104 79 2 49 104 76 1 53 39 0 4 32 60 80 31 110 103 15 27 35 63 14 21  
59 61 84 25 54 45 14 15 59 37 15 27 53 60 67 4 107 62 29 22 30 36 79 34 54 59 102 88 0 47

Bob: 37 116 63 73 0 56 104 78 9 34 45 82 76 33 38 68 9 38 59 84 13 58 44 0 4 59 63 0 21 59 61 0 0 59 62  
69 76 32 32 65 24 116 37 79 26 61 45 0 31 59 104 77 25 55 32

Alice: 4 32 60 80 31 110 103 15 27 35 63 14 21 59 61 84 25 54 45 14 15 59 37 15 27 53 60 67 4 107 62 29  
42 63 121 21 36 98 24 74 46 61 59