Covert Covert Weeked has of 1.00 A bream mander is a commission of 1s and 8s. 2s nºs least significant digit is the n° digit stanting from the right stanting with 1. Gives a discioud reactor, convert it to bream and determine the value of the this 4° least significant digit. Example number + 22 Consect the decimal number 23 to binary number: 24 representation is C. Function Description Complete the function fourth\$2 in the editor before fourtilit has the following parameter(s): intriumber, a decirsal integer int, an enleger D or 1 matching the 4th least significant digit in the binary representation of number. $0 \approx marther + 2^{20}$ Input Format for Custom Testing triplet from otder will be processed as follows and passed to the function. The only low contains an integer, number. Sample Case II Sample Input 0 STDN Function 32 →nunter = 32 . Convert the decimal number 32 to kinary number: $32_{10} + (100000)_{2}$ The salue of the 4th index from the right in the briary representation is G. Sample Case 1 Sample Input 1 STON Function . Convert the decimal number 77 to binary number: 77 $_{12}$ = (1.001.101 $|\rangle_{j_1}$ The value of the 4th index from the right in the binary representation in T. Ameer: (penalty regime 0.5) Renel armore

```
Test Expected Get

✓ print("Ne", fourthRes(NE)) 8 8 -

✓ print("Ne", fourthRes(NE)) 1 5 -

Passed all sector ✓
```

Determine the factors of a number (i.e., all positive relayer values that exhib displaints a number) and then return the p^{th} element of the fact, suried ascending. If there is no p^{th} element, solven 0. 6 = 25 The factors of 20 in escending order are (1, 2, 4, 5, 10, 23). Using 1-based indexing if ρ = 3, then 4 is estamed. If ρ = 6, 0 would be refurred. **Function Description** Complete the function yet/Factor in the editor below pthFactor has the following parameter(s): int is: the integer whose factors are to be found attig: the index of the factor to be refurred. int: the long integer value of the \mathfrak{g}^{b} integer factor of n or, if there is no factor at that index, then 0 is returned 1 5 9 5 10 12 149410 Input Format for Custom Testing input from stdin will be processed as follows and passed to the function: The first line nontains an integer is, the number to factor. The second line contains as integer p, the 1-sused index of the factor to return. Sample Case 0 Sample Input 6 STDN Function 10 -==10 8 - 6-8 Factoring n = 10 results in (1, 2, 5, 10), Retarn the ρ = 2° . Factor 5, as the assert Sample Case 1 Sample Input 1 STON Function 10 -- == 10 5 -- 0-5 Sample Output 1 Factoring n=10 results in (1, 2, 5, 10). There are only 4 factors and p=5, therefore 0 is returned as the answer. Sample Case 2 Sample Input 2 STDIN Function 1 - n=1 1 - p=1 Sumple Output 2 Espianation 2 Factoring n=1 results in (1). The $p=\log f$ factor of 1 is returned as the answer.

Answer: (pimalty regime: 0 %

Sample Output 0 Explanation 0 Factoring n = 10 results in (1, 2, 5, 10). Return the $p = 3^{nd}$ factor, 5, as the answer. Sample Case 1 Sample Input 1 STDIN Function 10 - n=10 5 + p=5 Sample Output 1 Explanation 1 Factoring n = 10 results in (1, 2, 5, 10). There are only 4 factors and p = 5, therefore 0 is returned as the answer. Sample Case 2 Sample Input 2 STDIN Function 1 - n=1 1 - p=1 Sample Output 2 Explanation 2 Factoring n = 1 results in (1). The p = 1st factor of 1 is returned as the answer. Answer: (penalty regime: 0 %) Reset answer $\frac{1+|f|^{\phi}}{2}$ * Complete the 'pthFactor' function below 2 * Complete the 'pthFactor' function beld 3 * The function is expected to return a L 5 * The function accepts following paramet 6 * 1. LONG_INTEGER n 7 * 2. LONG_INTEGER p 8 */

return 0;