

DO YOU WANT A REALLY CHALLENGING JOB WHICH WILL OFFER A GREAT CAREER PATH?



Offering a position for the best Computer Engineers of Costa Rica!

Do you want access to GAP's VIP Room for Candidates?

Well, first you must complete this exercise:

Consider the following hashing function for strings, for a string S with length n :

$$\text{hashValue} = S[0] * 2^{(n-1)} + S[1] * 2^{(n-2)} + \dots + S[n-1]$$

where $S[x]$ is the ASCII value of the character located in position x of the string S .

Also, consider the following magic number: **72491**

Perform the following steps:

1. Take your email address (e.g. cooldev@domain.com) and calculate its hash value, according to the previous function. Include the @ and domain name to calculate the hash value.
2. Now calculate the total **sum** of the ASCII values of all the characters in your email address. For example, for cooldev@domain.com you should do ASCII(c) + ASCII(o) + ASCII(o) and so on. Remember to include the @ and domain name for this as well.
3. Now sum the hash value obtained in step 1 with the square value of the total ASCII sum obtained in step 2, plus the magic number mentioned above ($\text{hashValue} + \text{asciiSum}^2 + \text{magicNumber}$).
4. Finally, calculate the HEX value of the result obtained in step 3.

Now send your resume to GAP's VIP Room at the following address:

[HEX value obtained in step 4]@growthaccelerationpartners.net

You **MUST** include the following in your email's subject: "My Magic Number is: "72491"

(CPIC)