

```
def cesar_chiffre_nb(x,k):
    return (x+k)%26

def cesar_dechiffre_nb(x,k):
    return (x-k)%26

def cesar_chiffre_mot(mot,k):
    message_code = []
    for lettre in mot:
        nb = ord(lettre)-65
        nb_crypté = cesar_chiffre_nb(nb,k)
        lettre_crypté = chr(nb_crypté+65)
        message_code.append(lettre_crypté)
    message_code = "".join(message_code)
    return (message_code)

def cesar_attaque(mot):
    for k in range(26):
        print(cesar_chiffre_mot(mot,-k))
    return None

def cesar_dechiffre_mot(mot,k):
    message_code = []
    for lettre in mot:
        nb = ord(lettre)-65
        nb_clair = cesar_chiffre_nb(nb,-k)
        lettre_clair = chr(nb_clair+65)
        message_code.append(lettre_clair)
    message_code = "".join(message_code)
    return (message_code)
```

```
def cesar_chiffre_nb(x,k):
    return (x+k)%26

def cesar_dechiffre_nb(x,k):
    return (x-k)%26

def cesar_chiffre_mot(mot,k):
    message_code = []
    for lettre in mot:
        nb = ord(lettre)-65
        nb_crypté = cesar_chiffre_nb(nb,k)
        lettre_crypté = chr(nb_crypté+65)
        message_code.append(lettre_crypté)
    message_code = "".join(message_code)
    return (message_code)

def cesar_attaque(mot):
    for k in range(26):
        print(cesar_chiffre_mot(mot,-k))
    return None

def cesar_dechiffre_mot(mot,k):
    message_code = []
    for lettre in mot:
        nb = ord(lettre)-65
        nb_clair = cesar_chiffre_nb(nb,-k)
        lettre_clair = chr(nb_clair+65)
        message_code.append(lettre_clair)
    message_code = "".join(message_code)
    return (message_code)
```