

Entrelacement

```
# Polynômes sur le corps à deux éléments en la variable 'X'
R.<X>=GF(2)[
```

```
P=X^2+X^4+X^5+X^8
PP1=P*X; print PP1
PP2=P*(X+1); print PP2
```

```
X^9 + X^6 + X^5 + X^3
X^9 + X^8 + X^6 + X^4 + X^3 + X^2
```

```
def pol2binary(poly):
    lst=list(poly)
    #for x in range(0,len(lst)):
    #    print lst[x]
    lst.reverse()
    return lst
```

```
pol2binary(PP1)
```

```
[1, 0, 0, 1, 1, 0, 1, 0, 0, 0]
```

```
def interleaving(lst1,lst2):
    y=0
    lst = []
    for x in range(0,len(lst1)):
        lst.append(lst1[x])
        lst.append(lst2[y])
        if y<=len(lst2):
            y=y+1

    print lst
```

```
interleaving(pol2binary(PP1),pol2binary(PP2))
```

```
[1, 1, 0, 1, 0, 0, 1, 1, 1, 0, 0, 1, 1, 1, 0, 1, 0, 0, 0, 0]
```