

Correction exercices sur les Chaînes de caractères

function [n]=Pos_Car(car,c)

```
n=0;i=1;
while (n==0)&(i<=length(c)) do
    if part(c,i)==car then n=i; end
    i=i+1;
end
```

function [n]=Nb_Occurr(car,c)

```
n=0;
for i=1:length(c) do
    if part(c,i)==car then n=n+1; end
end
```

function [n]=Nb_Mots1(c)

```
if length(c)==0 then n=0; else n=1; end
for i=1:length(c) do
    if part(c,i)==' ' then n=n+1; end
end
```

function [n]=Nb_Mots2(c)

```
caract='.'()'' '
if length(c)==0 then n=0; else n=1; end
for i=1:length(c) do
    b=strindex(caract,part(c,i));
    if ~isempty(b) then n=n+1; end
end
```

function [d]=inv_(c)

```
d="";
for i=1:length(c) do d=part(c,i)+d; end
```

function [d]=Sans_Blanc(c)

```
d="";
for i=1:length(c) do
    if part(c,i)<>' ' then d=d+part(c,i); end
end
```

function [d]=Sch(c,p,n)

```
d="";
for i=p:(p+n-1) do
    d=d+part(c,i)
end
```

function [d]=Mot(n,c)

```
p=Nb_Mots1(c);
if p<n then d="
    else p=1;i=0;
        while p<n do
            i=i+1;
            if part(c,i)==' ' then p=p+1; end
        end
        i=i+1
        d=part(c,i);i=i+1;
        while part(c,i)<>' ' do
            d=d+part(c,i);
            i=i+1;
        end
    end
```

function [c]=Num_Insee

```
a=input('Entrez le chiffre 1 ou le chiffre 2')
while (a<1) | (a>2) do
    a=input('Entrez le chiffre 1 ou le chiffre 2')
end
c=string(a)
a=input('Entrez les deux derniers chiffres de l'année')
b=string(a); c=c+b;
b=input('Entrez les mois entre 01 et 12')
while b<1 | b>12 do
    b=input('Entrez les mois entre 01 et 12')
end
if b<10 then c=c+'0'+string(b); else c=c+string(b); end
a=input('Entrez la fin du numéro')
b=string(a)
c=c+b;
```

```
function [m]=cle(c)
```

```
n=evstr(c)
```

```
m=97-modulo(n,97)
```

```
function Message(c)
```

```
n=evstr(c)
```

```
d='Bonjour, ';
```

```
if part(c,1)=='1' then d=d+'Monsieur! Vous êtes né'; else d=d+'Madame!
```

```
Vous êtes née'; end
```

```
d=d+' en ';
```

```
if part(c,[4 5])=='01' then d=d+'janvier'
```

```
elseif part(c,[4 5])=='01' then d=d+'janvier'
```

```
elseif part(c,[4 5])=='02' then d=d+'fevrier'
```

```
elseif part(c,[4 5])=='03' then d=d+'mars'
```

```
elseif part(c,[4 5])=='04' then d=d+'avril'
```

```
elseif part(c,[4 5])=='05' then d=d+'mai'
```

```
elseif part(c,[4 5])=='06' then d=d+'juin'
```

```
elseif part(c,[4 5])=='07' then d=d+'juillet'
```

```
elseif part(c,[4 5])=='08' then d=d+'aout'
```

```
elseif part(c,[4 5])=='09' then d=d+'septembre'
```

```
elseif part(c,[4 5])=='10' then d=d+'octobre'
```

```
elseif part(c,[4 5])=='11' then d=d+'novembre'
```

```
elseif part(c,[4 5])=='12' then d=d+'decembre'
```

```
end
```

```
d=d+' 19'+string(part(c,[2 3]))
```

```
disp(d)
```

```
function [b]=carre(m)
```

```
b=%t;
```

```
if modulo(length(m),2)<>0 then b=%f; end
```

```
for i=1:(length(m)/2) do
```

```
    if part(m,i)<>part(m,i+length(m)/2) then b=%f; end
```

```
end
```

```
function [m]=generer_carre
```

```
m="";
```

```
for i=1:4 do m=m+ascii(floor(rand()*26)+65); end
```

```
m=m+m
```

```
function recherche_carre(m)
```

```
n=Nb_Mots1(m);
```

```
for i=1:n do
```

```
    a=Mot(i,m);
```

```
    if carre(a) then disp(a); end
```

```
end
```

```
function programme
```

```
reponse=1
```

```
while reponse<>0 do
```

```
    disp('tapez 1 pour vérifier si un mot est un carré')
```

```
    disp('tapez 2 pour générer un mot carré')
```

```
    disp('tapez 3 pour afficher tous les mots carrés d"une phrase')
```

```
    disp('tapez 0 pour arrêter')
```

```
    reponse=input(' ');
```

```
    select reponse
```

```
    case 1 then a=input('entrez un mot',"string"); if carre(a) then
```

```
        disp('ce mot est carré'); else disp('ce mot n"est pas carré'); end
```

```
    case 2 then disp(generer_carre());
```

```
    case 3 then a=input('entrez une phrase',"string");
```

```
        recherche_carre(a);
```

```
    end
```

```
end
```