

Question 1

j	i
/	7
1	10
2	8
3	4
4	7

La valeur de **i** sera égale à 7.

Question 2

(1)

```

function premier(n:integer):boolean;
var i:integer;
begin
  if n<=1 then result:=false
  else if n=2 then result:=true
  else if n mod 2 = 0 then result:=false
  else begin
    i:=3;
    result:=true ;
    while (i*i<=n) and result do
      if n mod i = 0 then result:=false else i:=i+2;
  end
end;

```

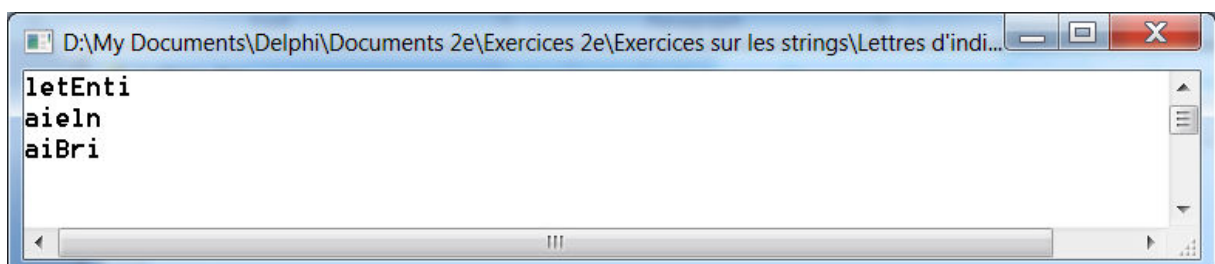
(2)

n	i	result
121	3	true
121	5	true
121	7	true
121	9	true
121	11	false

Donc : **premier(121)=false.**

Question 3

(1) Quelle est la sortie écran du programme principal suivant ?



(2)

```
function monmot(s:string):string;  
var i:integer;  
begin  
  result:='';  
  for i:=1 to length(s) div 2 do  
    result:=result+s[2*i]  
end;
```

Question 4

```
procedure lancer_de(n:integer);  
var i:integer;  
begin  
  randomize;  
  for i:=1 to n do write(random(6)+1, ' ');  
end;
```

Question 5

```
procedure colonne(n:integer);  
var row,i:integer;  
begin  
  for row:=1 to n do  
    begin  
      for i:=1 to 2*n do write(' ');  
      writeln('*');  
    end  
end;
```

```
procedure croix(n:integer);  
var i:integer;  
begin  
  colonne(n);  
  for i:=1 to 2*n do write('* '); writeln('*');  
  colonne(n);  
end;
```

Question 6

```
function somme_carres(n:integer):integer;  
var i:integer;  
begin  
  result:='';  
  for i:=1 to n do result:=result+i*i  
end;
```