

```

//BAI 1: TAXI
const
  fin='test.inp';  fon='test.out';
  maxm=1000;vc=100;
var
  d:array[1..4] of longint;
  n:word;
procedure enter;
var i,x:word;
begin
  readln(n);
  for i:=1 to n do
    begin
      read(x);
      inc(d[x]);
    end;
  end;
procedure solve;
var s:word;
begin
  s:=0;
  s:=d[4];
  s:=s+d[3];
  d[1]:=d[1]-d[3];
  s:=s+(d[2] div 2);
  if d[2] mod 2 = 1 then
    begin
      inc(s);
      d[1]:=d[1]-2;
    end;
  if d[1]>0 then s:=s+((d[1]-1) div 4)+1;
  write(s);
  end;
begin
  assign(input,fin);reset(input);
  assign(output,fon);rewrite(output);
  enter;
  solve;
  close(input);close(output);
end.

```

//BAI 2: MASO

```
const
    fin='test.inp';fon='test.out';
var
    a:array[1..7] of longint;
    c:array[1..11] of char;
    n,k:longint;
procedure nhap;
var i:longint;
begin
    read(k);
    read(n);
    for i:=1 to 7 do read(a[i]);
    readln;
    for i:=1 to k do read(c[i]);
end;
procedure xuli;
var s,i:longint;
begin
    s:=0;
    for i:=7 downto 1 do
        begin
            s:=s+a[i]*(n mod 10);
            n:=n div 10;
        end;
    s:=s mod k;
    writeln(c[s+1]);
end;
begin
    assign(input,fin);reset(input);
    assign(output,fon);rewrite(output);
    nhap;
    xuli;
    close(input);close(output);
end.
```

//BAI 3: XEDIEN

```
const
    fin=""; fon="";
procedure solve;
var i,n,a,b,s,max:longint;
```

```

begin
readln(n);max:=0;s:=0;
for i:=1 to n do
  begin
    read(a, b);
    s:=s-a+b;
    if s>max then max:=s;
  end;
write(max);
end;
begin
assign(input,fin);reset(input);
assign(output,fon);rewrite(output);
solve;
close(input);close(output);
end.

```

//BAI 4: TICHMAX

```

const finp='tichmax.inp';
      fout='tichmax.out';
var max1,max2,max3,min1,min2,x,i,n:longint;
    max,a, b:int64;
begin
  {Nhập}
  assign(fi,finp);reset(fi);
  readln(fi,n);
  for i:=1 to n do read(fi,a[i]);
  Close(fi);
  {Tim max}
  max1:=a[1];max2:=max1;max3:=max1;
  for i:=2 to n do
begin
  if (x>=max1) then
    begin
      max3:=max2;
      max2:=max1;
      max1:=x;
    end
  else
    if (x>=max2) then
      begin

```

```

        max3:=max2;
        max2:=x;
        end
else
if (x>=max3) then max3:=x;
    end;
{Tim min}
for i:=2 to n do
    begin
        if (x<=min1) then
            begin
                min2:=min1;
                min1:=x;
            end
        else
if (x<=min2) then min2:=x;
    end;
a := max1*max2*max3 ;
b := min1*min2*max1 ;
if a>b then max:=a else max:=b;
    {Xuat}
    assign(fo,fout);rewrite(fo);
    writeln(kq);
    close(fo);
end.

```

//BAI 5: LOHONG

Program Bt;

Const

lohong:array[0..9] of longint = (1,0,0,0,1,0,1,0,2,1);

Var

tong,n:longint;

Begin

Write('Nhap n: ');

Readln(n);

Write(n, ' ');

Tong:=0;

While n>0 do

Begin

tong:=tong+lohong[n mod 10];

n:=n div 10;

```
End;  
Write(tong);  
Readln;  
End.
```

```
//BAI 6:BAICONGONNHAT
```

```
const  
  fin = 'test.inp';  
  fon = 'test.out';  
  maxN = 100;maxM=100;  
var  
  a:array[0..maxm,0..maxn] of char;  
  j,i,m,n,d:longint;  
begin  
  assign(input,fin);reset(input);  
  assign(output,fon);rewrite(output);  
  readln(m, n);  
  for i:=1 to m do  
    begin  
      for j:=1 to n do  
        begin  
          read(a[i,j]);  
          if a[i,j]='#' then  
            begin  
              inc(d);  
              if a[i-1,j]='#' then dec(d);  
              if a[i,j-1]='#' then dec(d);  
            end;  
          end;  
        readln;  
      end;  
    writeln(d);  
  close(input);close(output);  
end.
```

```
//BAI7: NGONNGU
```

```
const  
  fin='test.inp'; fon='test.out';  
  maxmn=1000;maxn=1000;  
  vc=maxlongint;
```

```

var
  cs:array[0..9] of string;
  n,d:longint;
procedure nhap;
var i:Longint;s:string; c:char;
begin
  d:=-1;s:="";
  while not eoln do
    begin
      read(c);
      if c<>' ' then s:=s+c
      else
        begin inc(d);cs[d]:=s;s:=""; end;
    end;
  end;
function doccs(x:longint):string;
var max:string;
begin
  max:=cs[x mod 10];
  while x>0 do
    begin
      if cs[x mod 10]>max then max:=cs[x mod 10];
      x:=x div 10;
    end;
  exit(max);
end;
procedure xuli;
var s,i,x:longint;
begin
  read(n);
  for i:=1 to n do
    begin
      read(x);
      writeln(doccs(x));
    end;
  end;

begin
  assign(input,fin);reset(input);
  assign(output,fon);rewrite(output);
  nhap;

```

```
xuli;  
close(input);close(output);  
end.
```

```
//BAI 8: CHUSON
```

```
const  
    fin='tongcs.inp'; fon='tongcs.out';  
    maxmn=1000;maxn=1000;  
    vc=maxlongint;
```

```
var  
    a:array[0..10] of qword;
```

```
function so(vt:qword):char;  
var x,y,du,kq,i:longint;skq:string;  
begin  
    x:=1;  
    while a[x]<=vt do  
        x:=x+1;  
    du:=vt-a[x-1]-1;  
    y:= du div x;  
    kq:=1;  
    for i:=1 to x-1 do kq:=kq*10;  
    kq:=kq+y;  
    str(kq,skq);  
    exit(skq[du mod x+1]);  
end;  
procedure xuli;  
var s,lt:int64;i:Longint;n:qword;  
begin  
    read(n);  
    s:=0;lt:=1;  
    for i:=1 to 10 do  
        begin  
            s:=s+i*9*lt;  
            a[i]:=s;  
            lt:=lt*10;  
        end;  
    //for i:=1 to 10 do writeln(a[i]);  
    writeln(so(n));
```

```
end;  
begin  
assign(input,fin);reset(input);  
assign(output,fon);rewrite(output);  
//nhap;  
xuli;  
close(input);close(output);  
end.
```