



```

b)
function [m2 m3 ni2ni3]=separa3vecRec(v)
lv=length(v);

if lv==0
    m2=[];m3=[];ni2ni3=[];
else
    [m2 m3 ni2ni3]=separa3vecRec(v(2:lv));
    if mod(v(1),2)==0
        m2=[v(1),m2];
    endif
    if mod(v(1),3)==0
        m3=[v(1),m3];
    endif
    if ~(mod(v(1),2)==0 || mod(v(1),3)==0)
        ni2ni3=[v(1),ni2ni3];
    endif
endif
endfunction

```

<b>Problema 4</b>	16 ptos	
-------------------	---------	--

```

function [Rv,Ri,Rj]=restaParIt(Mv,Mi,Mj)
LM=length(Mv);
Rv=[];Ri=[];Rj=[];
for i=1:LM
    if mod(Mi(i)+Mj(i),2)==0
        if Mv(i)~=1 %controla que se eliminen las celdas con 0.
            Rv=[Rv Mv(i)-1];
            Ri=[Ri Mi(i)];
            Rj=[Rj Mj(i)];
        endif
    else
        Rv=[Rv Mv(i)];
        Ri=[Ri Mi(i)];
        Rj=[Rj Mj(i)];
    endif
endfor
endfunction

```

<b>Problema 5</b>	16 ptos	
-------------------	---------	--

```

function HP=HayParejasIt(M)
LM=size(M,1);
HP=zeros(1,LM);
for i=1:LM
    j=1;
    while j<LM && HP(i)==0
        if M(i,j)==1 && M(i,j+1)==1
            HP(i)=1;
        endif
        j=j+1;
    endwhile
endfor
endfunction

```



<b>Problema 6</b>	18 ptos	
-------------------	---------	--

```
function res = SumPolisRec(p1,p2)
lp1=length(p1); %se asume que lp1>lp2
lp2=length(p2);
if lp2 == 0
    res = p1;
else
    res = SumPolisRec(p1(1:lp1-1),p2(1:lp2-1));
    res = [res, p1(lp1)+p2(lp2)];
endif
endfunction
```