!

IF(Init)THEN

P\_0s:=1;

P\_1s:=0;P\_2s:=0;P\_3s:=0;P\_4s:=0;P\_5s:=0;P\_6s:=0;P\_7s:=0;P\_8s:=0;P\_9s:=0;P\_10s:=0;

P\_11s:=0;

P\_12s:=0;P\_13s:=0;P\_14s:=1;P\_15s:=0;P\_16s:=0;P\_17s:=0;P\_18s:=0;P\_19s:=0;

Poste\_libre:=1;

END\_IF;

P\_0p:=P\_0s;

P\_1p:=P\_1s;P\_2p:=P\_2s;P\_3p:=P\_3s;P\_4p:=P\_4s;P\_5p:=P\_5s;

P\_6p:=P\_6s;P\_7p:=P\_7s;P\_8p:=P\_8s;P\_9p:=P\_9s;P\_10p:=P\_10s;

P\_11p:=P\_11s;P\_12p:=P\_12s;P\_13p:=P\_13s;P\_14p:=P\_14s;P\_15p:=P\_15s;

P\_16p:=P\_16s;P\_17p:=P\_17s;P\_18p:=P\_18s;P\_19p:=P\_19s;

IF(P\_0p=1 AND D1g AND D2g)THEN P\_0s:=P\_0s-1;P\_1s:=P\_1s+1;

END\_IF;

IF(P\_1p=1)THEN P\_1s:=P\_1s-1;P\_2s:=P\_2s+1;

END\_IF;

IF(P\_2p=1 AND Ps1)THEN P\_2s:=P\_2s-1;P\_3s:=P\_3s+1;

END\_IF;

IF(P\_3p=1 AND Poste\_libre=0)THEN P\_3s:=P\_3s-1;P\_15s:=P\_15s+1;

END\_IF;

IF(P\_3p=1 AND Poste\_libre=1)THEN P\_3s:=P\_3s-1;P\_4s:=P\_4s+1;Poste\_libre:=Poste\_libre-1;

END\_IF;

IF(P\_4p=1 AND D1d)THEN P\_4s:=P\_4s-1;P\_5s:=P\_5s+1;

END\_IF;

IF(P\_5p=1 AND NOT Ps1)THEN P\_5s:=P\_5s-1;P\_6s:=P\_6s+1;

END\_IF;

IF(P\_6p=1 AND Cp1)THEN P\_6s:=P\_6s-1;P\_7s:=P\_7s+1;

END\_IF;

IF(P\_7p=1 AND D1g)THEN P\_7s:=P\_7s-1;P\_8s:=P\_8s+1;P\_2s:=P\_2s+1;

END\_IF;

IF(P\_8p=1 AND Ps2)THEN P\_8s:=P\_8s-1;P\_9s:=P\_9s+1;START Temp;

END\_IF;

IF(P\_9p=1 AND Temp.Q)THEN P\_9s:=P\_9s-1;P\_10s:=P\_10s+1;

END\_IF;

IF(P\_10p=1 AND P\_14p=1 AND Ps5)THEN P\_10s:=P\_10s-1;P\_11s:=P\_11s+1;P\_14s:=P\_14s-1;DOWN Temp;

END\_IF;

IF(P\_11p=1 AND D2d)THEN P\_11s:=P\_11s-1;P\_12s:=P\_12s+1;

END\_IF;

IF(P\_12p=1 AND Ps6)THEN P\_12s:=P\_12s-1;P\_13s:=P\_13s+1;

END\_IF;

IF(P\_13p=1 AND NOT Ps6)THEN P\_13s:=P\_13s-1;P\_14s:=P\_14s+1;Poste\_libre:=Poste\_libre+1;

END\_IF;

IF(P\_14p=1 AND Ps4 AND NOT Ps5)THEN P\_14s:=P\_14s-1;P\_17s:=P\_17s+1;

END\_IF;

IF(P\_17p=1 AND D2g)THEN P\_17s:=P\_17s-1;P\_18s:=P\_18s+1;

END\_IF;

IF(P\_18p=1 AND Ps6)THEN P\_18s:=P\_18s-1;P\_19s:=P\_19s+1;

END\_IF;

IF(P\_19p=1 AND NOT Ps6)THEN P\_19s:=P\_19s-1;P\_14s:=P\_14s+1;

END\_IF;

IF(P\_15p=1 AND NOT Ps1)THEN P\_15s:=P\_15s-1;P\_16s:=P\_16s+1;

END\_IF;

IF(P\_16p=1 AND Cp2)THEN P\_16s:=P\_16s-1;P\_2s:=P\_2s+1;

END\_IF;

R1d:=P\_4p=1;

R1g:=P\_0p=1 OR P\_7p=1;

V2:=P\_1p=1 OR P\_12p=1 OR P\_18p=1;

V1:=P\_1p=1 OR P\_2p=1 OR P\_5p=1 OR P\_8p=1;

D1:=P\_0p=1 OR P\_4p=1 OR P\_7p=1;

R2d:=P\_11p=1;

R2g:=P\_0p=1 OR P\_17p=1;

D2:=P\_0p=1 OR P\_11p=1 OR P\_17p=1;

St1:=P\_5p=1 OR P\_15p=1;

St2:=P\_10p=1;

St3:=P\_10p=1;

St4:=P\_18p=1;

St5:=P\_12p=1;

(\* visualisation variables \*)

R2g:=R2g;

R2d:=R2d;

R1d:=R1d;

R1g:=R1g;

D1:=D1;

D2:=D2;

V2:=V2;

V1:=V1;

D1g:=D1g;

D1d:=D1d;

D2g:=D2g;

D2d:=D2d;