



LAMPIRAN

LAMPIRAN A

```
Program Solusi_Dekker;
uses Crt;
Const
    N = 2;
Var
    turn : integer;
    flag : array [0..N-1] of boolean;

Procedure MasukCriticalSection;
begin
    write ('0');
end;

Procedure KeluarCriticalSection;
begin
    write ('1');
end;

Procedure Proses0;
begin
    repeat
        flag[0] := true;
        turn := 1;
        while flag[1] do
            if turn = 1 then
                begin
                    flag[0] := false;
                    while turn = 1 do
                        flag[0] := true;
                    end;
                end;
            MasukCriticalSection;
            turn := 1;
            flag[0] := false;
            KeluarCriticalSection;
        until false
    end;
```

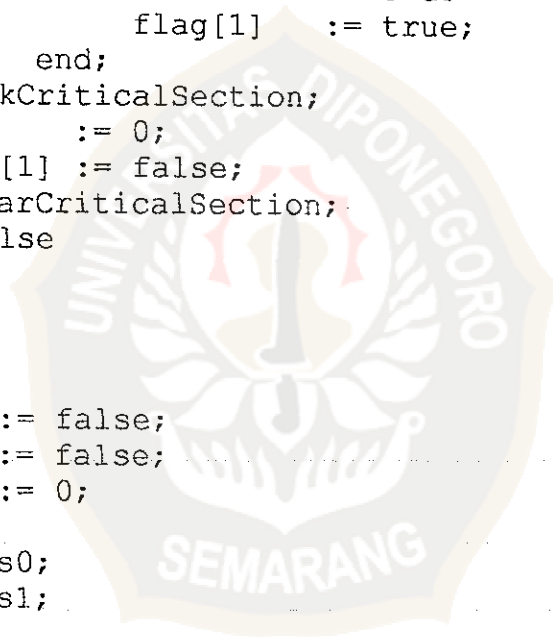
```

Procedure Proses1;
begin
    repeat
        flag[1] := true;
        turn := 0;
        while flag[0] do
            if turn = 0 then
                begin
                    flag[1] := false;
                    while turn = 0 do
                        flag[1] := true;
                    end;
                    MasukCriticalSection;
                    turn := 0;
                    flag[1] := false;
                    KeluarCriticalSection;
                end;
            until false;
        end;
    end;

Begin
    ClrScr;
    flag[0] := false;
    flag[1] := false;
    turn := 0;
    begin
        Proses0;
        Proses1;
    end;
    readln;

End.

```



LAMPIRAN B

```
Program Solusi_Dekker;
uses Crt;
Const
    N = 2;
Var
    turn, I : integer;
    flag    : array [0..N-1] of boolean;

Procedure MasukCriticalSection;
begin
    write (' A',I);
end;

Procedure KeluarCriticalSection;
begin
    write (' B',I);
end;

Procedure ProsesA;
begin
    flag[0] := true;
    while flag[1] do
        if turn = 1 then
            begin
                flag[0] := false;
                while turn = 1 do
                    flag[0] := true;
                end;
            end;
        MasukCriticalSection;
        turn := 1;
        flag[0] := false;
        KeluarCriticalSection;
        I := I+1;
    end;
```

```

Procedure ProsesB;
begin
    flag[1] := true;
    while flag[0] do
        if turn = 0 then
            begin
                flag[1] := false;
                while turn = 0 do
                    flag[1] := true;
                end;
            repeat
                MasukCriticalSection;
                turn := 0;
                flag[1] := false;
                KeluarCriticalSection;
                I := I+1;
            until I = 222;
        end;
    end;

Begin
    ClrScr;
    flag[0] := false;
    flag[1] := false;
    turn := 0;
    I := 1;
    begin
        ProsesA;
        ProsesB;
    end;
    readln

End.

```

