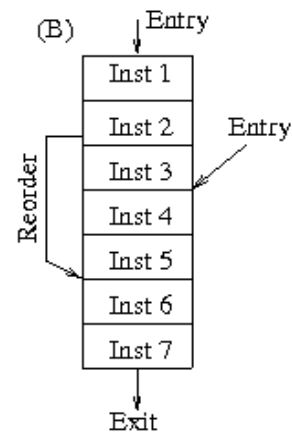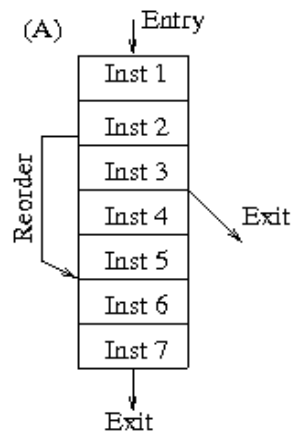Assignment – Computer Architecture and Organization – II, 2021
Instructor: Biplab K Sikdar

ILP

1, Show how the following loop can be parallelized despite the obvious loop-carried dependency.

```
for i=1 to 15 do
    a[i]   := a[i] + b[i];
    b[i+1] := c[i] + d[i]
endfor
```

2. Consider the simple code motions (reorder) noted below in (A) and (B)
   Show the compensation codes for both the cases.

Show the compensation codes for both the cases.