

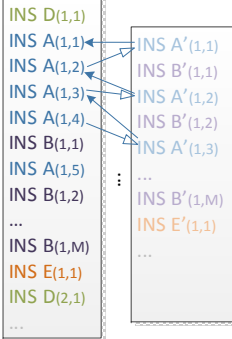
Original Program

```
for(j=0;j<20;j++)
{
  INS D
  for(i=0;i<=M;i++)
  {
    INS A
    INS B
    INS C
  }
  INS E
}
```

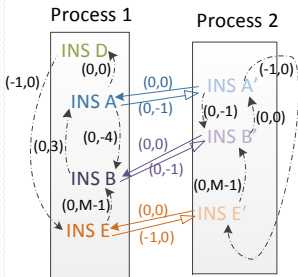
```
for(j=0;j<20;j++)
{
  INS D
  for(i=0;i<=M;i++)
  {
    INS A
    INS B
    INS C
  }
  INS E
}
```

```
for(j=0;j<20;j++)
{
  for(i=0;i<=M;i++)
  {
    INS A'
    INS B'
    INS C
  }
}
```

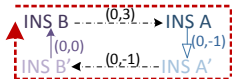
Schedule Of Instruction Invocations



Precedence Graph



Cycle for Artificial Deadlock



Sum of edge weight = (0,1)