

Original Program

```

...
for(j=0; j<20; j++)
{
  INS D
  for(i=0; i<10; i++)
  {
    INS A
    INS B
    INS C
  }
  INS E
}
...

```

Process 1

```

...
for(j=0; j<20; j++)
{
  INS D
  for(i=0; i<10; i++)
  {
    INS A
    INS B
    INS C
  }
  INS E
}
...

```

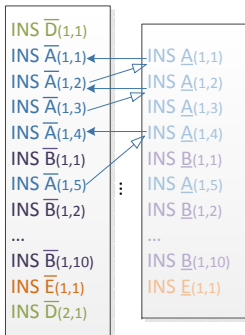
Process 2

```

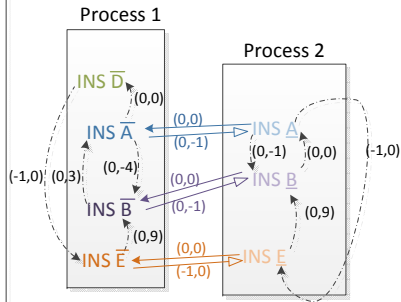
...
for(j=0; j<20; j++)
{
  INS D
  for(i=0; i<10; i++)
  {
    INS A
    INS B
    INS C
  }
  INS E
}
...

```

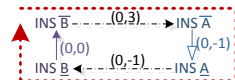
Schedule Of Instruction Instances



Graph with Vector Edge Weight



Cycle for Artificial Deadlock



Sum of edge weight = (0,1)