

Task	Arrive	Pri	Exe
A	0	1	XQQX
B	2	2	XXXXXXXX
C	4	3	XXQ

Normal

A	XQ-----Q-X
B	XX--XXXXXX
C	XX*****Q

Inherit

A	XQ----Q-----X
B	XX----XXXXXX
C	XX*Q

Immediate Ceiling

A	XQQ-----X
B	-X---XXXXXXX
C	XXQ

Original Ceiling

A	XQ----Q-----X
B	XX----XXXXXX
C	XX*Q

Task	Arrive	Pri	Exe
A	0	1	XQQQQX
B	2	2	XX
C	2	3	XVVX
D	4	4	XXQVX

Normal

```

A |XQ-----QQQ---X|
B |  -----XX      |
C |  XV--VX          |
D |    XX*****QVX   |

```

Inherit

```

A |XQ----QQQ-----X|
B |  -----XX      |
C |  XV-----V--X   |
D |    XX***Q*VX     |

```

Immediate Ceiling

```

A |XQQQQ-----X|
B |  -----XX   |
C |  -----XVVX  |
D |    -XXQVX     |

```

Original Ceiling

```

A |XQ-Q--QQ-----X|
B |  -----XX      |
C |  X*****-VVX    |
D |    XX**QVX       |

```

Task	Arrive	Pri	Exe
A	0	1	XQQBBQX
B	2	2	XVVBBVX
C	2	3	XXXX

Q is on resource
V is another resource
B is both

Normal

A	XQ-----Q*****	DEADLOCK
B	----XVV*****	DEADLOCK
C	XXXX	

Inherit

A	XQ-----Q*****	DEADLOCK
B	----XVV*****	DEADLOCK
C	XXXX	

Immediate Ceiling

A	XQ----QBBQ-----X
B	-----XVVBBVX
C	XXXX

Original Ceiling

A	XQ-----QBBQ-----X
B	----X****VVBVVX
C	XXXX