Test Input:

J1 8 10

J2 2 1

J3 12 12

J4 10 2

J5 5 8

J6 4 2

J7 4 6

J8 2 5

J9 4 3

J10 6 2

Test result:

current tick: tick 0

j1 is now proceeding, ID: 0 needed processor: 8 needed tick: 10

current tick: tick 1

current tick: tick 2

j2 is now proceeding, ID: 1 needed processor: 2 needed tick: 1

current tick: tick 3

j2 is now done, ID: 1 needed processor: 2 needed tick: 1

current tick: tick 4

current tick: tick 5

current tick: tick 6

current tick: tick 7

current tick: tick 8

current tick: tick 9

current tick: tick 10

j1 is now done, ID: 0 needed processor: 8 needed tick: 10

j4 is now proceeding, ID: 3 needed processor: 10 needed tick: 2

current tick: tick 11

current tick: tick 12

j4 is now done, ID: 3 needed processor: 10 needed tick: 2

j6 is now proceeding, ID: 5 needed processor: 4 needed tick: 2

current tick: tick 13

current tick: tick 14

j6 is now done, ID: 5 needed processor: 4 needed tick: 2

j8 is now proceeding, ID: 7 needed processor: 2 needed tick: 5

current tick: tick 15

current tick: tick 16

j9 is now proceeding, ID: 8 needed processor: 4 needed tick: 3

current tick: tick 17

current tick: tick 18

j10 is now proceeding, ID: 9 needed processor: 6 needed tick: 2

current tick: tick 19

j8 is now done, ID: 7 needed processor: 2 needed tick: 5

j9 is now done, ID: 8 needed processor: 4 needed tick: 3

j7 is now proceeding, ID: 6 needed processor: 4 needed tick: 6

current tick: tick 20

j10 is now done, ID: 9 needed processor: 6 needed tick: 2

j5 is now proceeding, ID: 4 needed processor: 5 needed tick: 8

current tick: tick 21

current tick: tick 22

current tick: tick 23

current tick: tick 24

current tick: tick 25

j7 is now done, ID: 6 needed processor: 4 needed tick: 6

current tick: tick 26

current tick: tick 27

current tick: tick 28

j5 is now done, ID: 4 needed processor: 5 needed tick: 8

j3 is now proceeding, ID: 2 needed processor: 12 needed tick: 12

current tick: tick 29

current tick: tick 30

current tick: tick 31

current tick: tick 32

current tick: tick 33

current tick: tick 34

current tick: tick 35

current tick: tick 36

current tick: tick 37

current tick: tick 38

current tick: tick 39

current tick: tick 40

j3 is now done, ID: 2 needed processor: 12 needed tick: 12