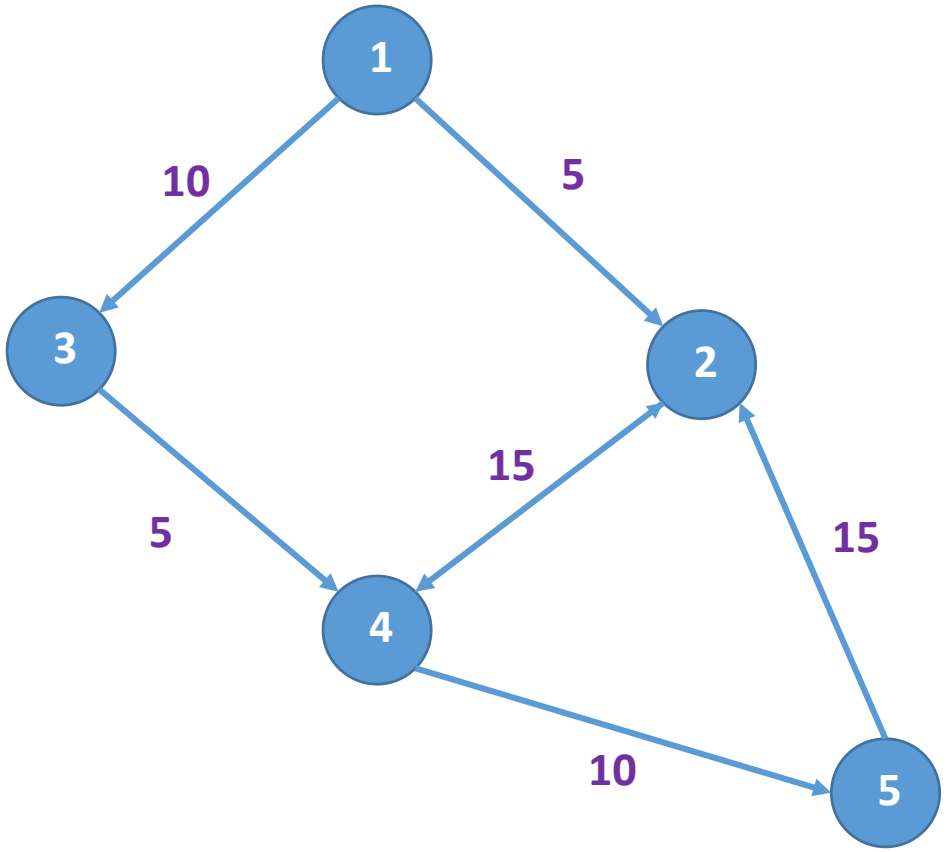
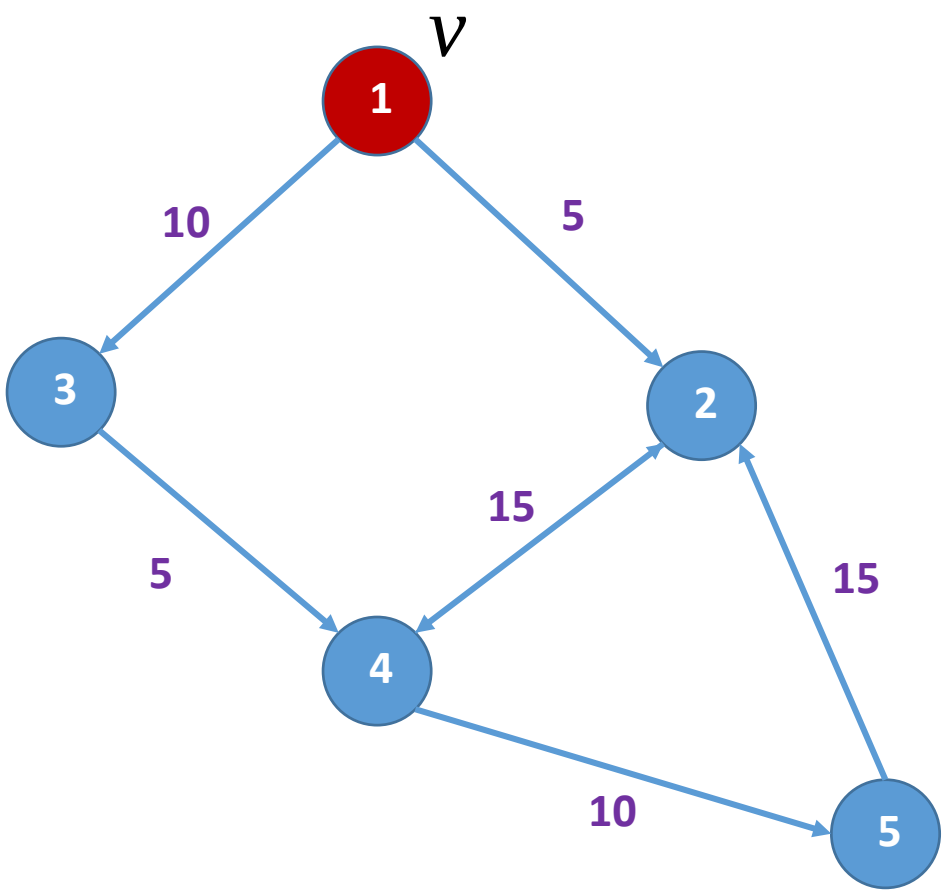
s = 1 ⟶ t = 5



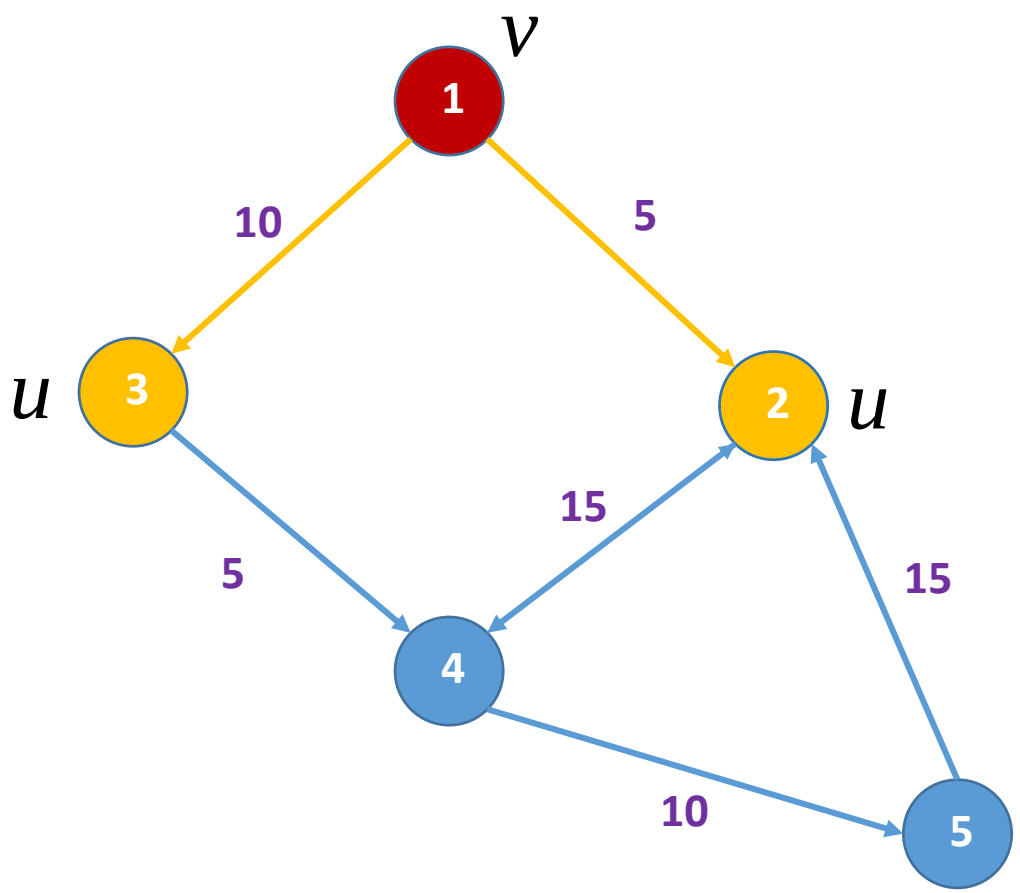
X [1] = 0 T[1] = ∞ H [1] = 0
X [2] = 0 T[2] = ∞ H [2] = 0
X [3] = 0 T[3] = ∞ H [3] = 0
X [4] = 0 T[4] = ∞ H [4] = 0
X [5] = 0 T[5] = ∞ H [5] = 0

s = 1 ⟶ v = 1



X [1] = 1	**T[1] = 0**	**H [1] = 0**
X [2] = 0	T[2] = ∞	H [2] = 0
X [3] = 0	T[3] = ∞	H [3] = 0
X [4] = 0	T[4] = ∞	H [4] = 0
X [5] = 0	T[5] = ∞	H [5] = 0

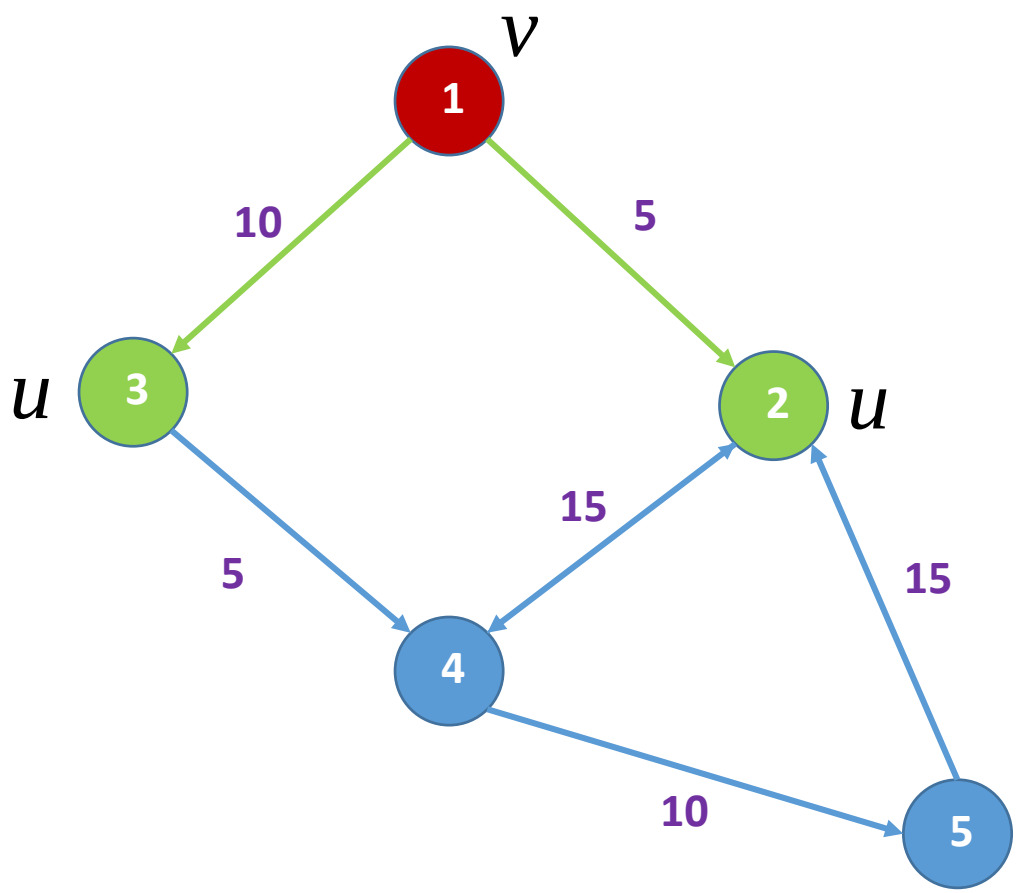
s = 1 ⟶ v = 1



X [1] = 1	**T[1] = 0**	**H [1] = 0**
X [2] = 0	T[2] = ∞	H [2] = 0
X [3] = 0	T[3] = ∞	H [3] = 0
X [4] = 0	T[4] = ∞	H [4] = 0
X [5] = 0	T[5] = ∞	H [5] = 0

M : {обновление пометок}

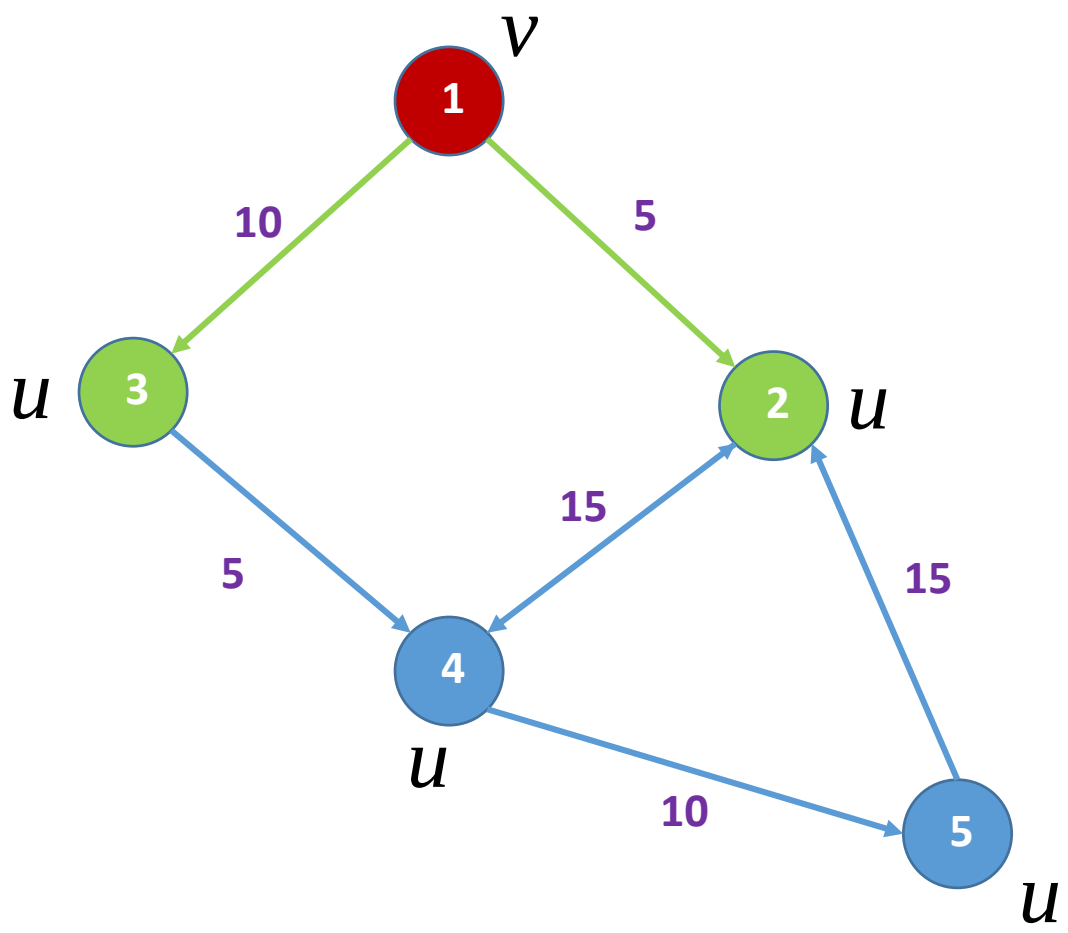
s = 1 ⟶ v = 1



X [1] = 1	**T[1] = 0**	**H [1] = 0**
X [2] = 0	**T[2] = 5**	**H [2] = 1**
X [3] = 0	**T[3] =10**	**H [3] = 1**
X [4] = 0	T[4] = ∞	H [4] = 0
X [5] = 0	T[5] = ∞	H [5] = 0

M : {обновление пометок}

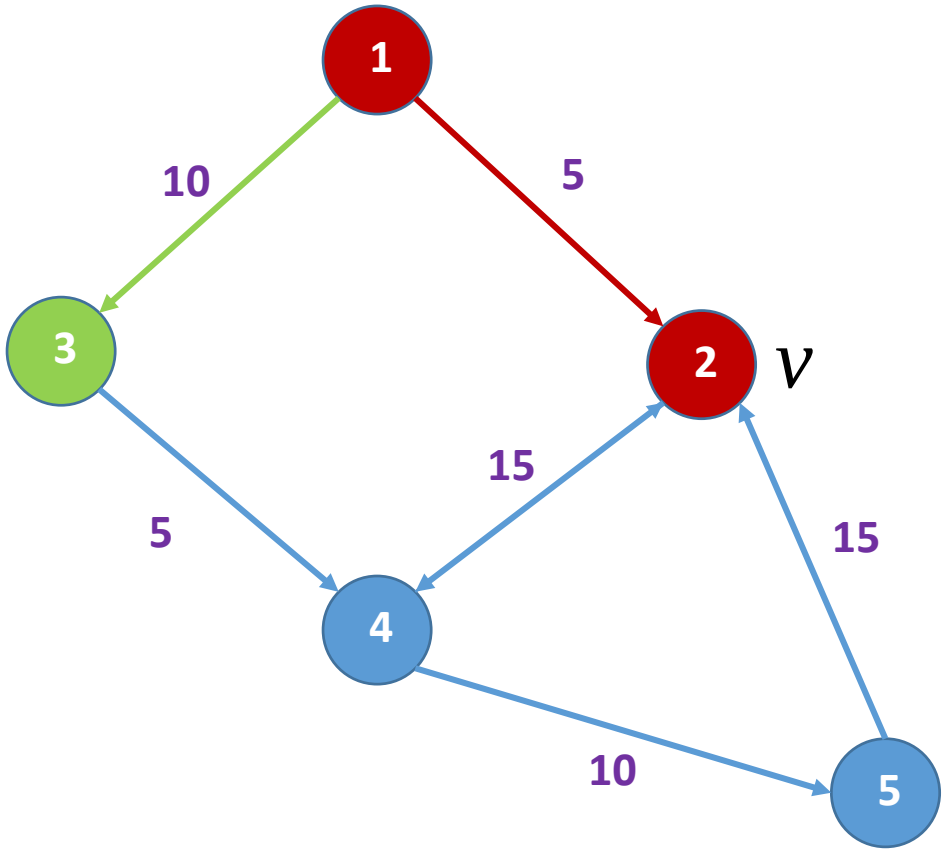
s = 1 ⟶ v = 1



X [1] = 1 **T[1] = 0** **H [1] = 0**
X [2] = 0 **T[2] = 5** **H [2] = 1**
X [3] = 0 **T[3] =10** **H [3] = 1**
X [4] = 0 T[4] = ∞ H [4] = 0
X [5] = 0 T[5] = ∞ H [5] = 0

{поиск конца кратчайшего пути} m = ∞ v = 0

s = 1 ⟶ v = 1 ⟶ v = 2

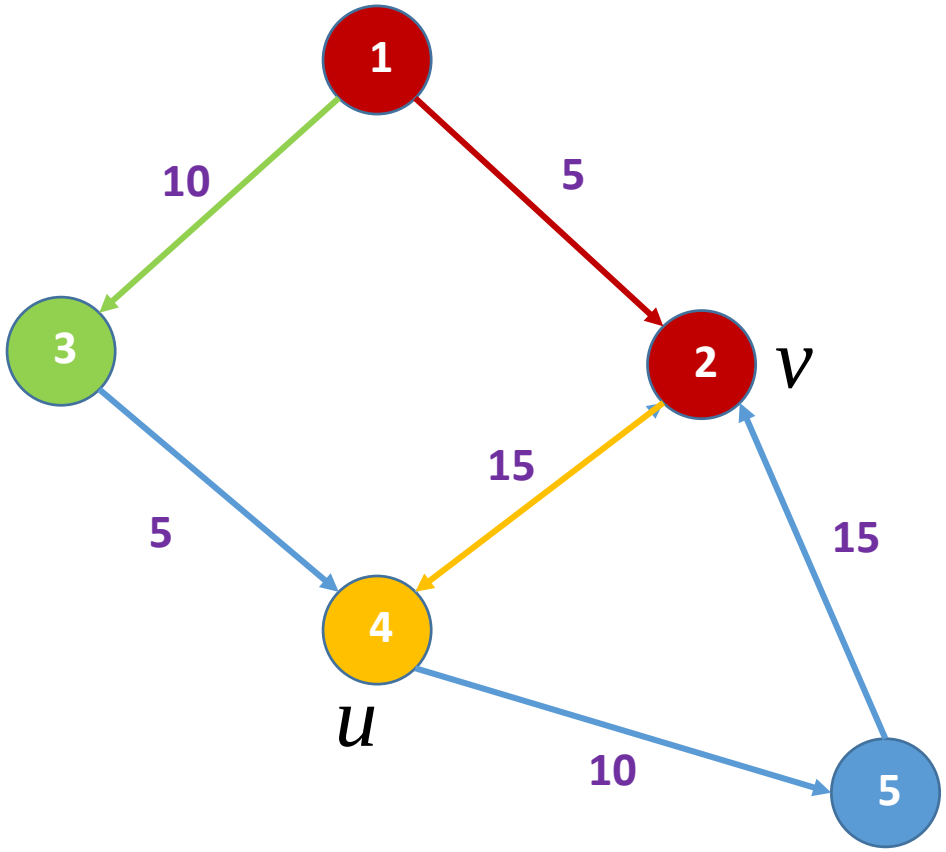


X [1] = 1 **T[1] = 0** **H [1] = 0**
X [2] = 1 **T[2] = 5** **H [2] = 1**
X [3] = 0 **T[3] =10** **H [3] = 1**
X [4] = 0 T[4] = ∞ H [4] = 0
X [5] = 0 T[5] = ∞ H [5] = 0

{обновление опорного узла v}

m = 5 v = 2

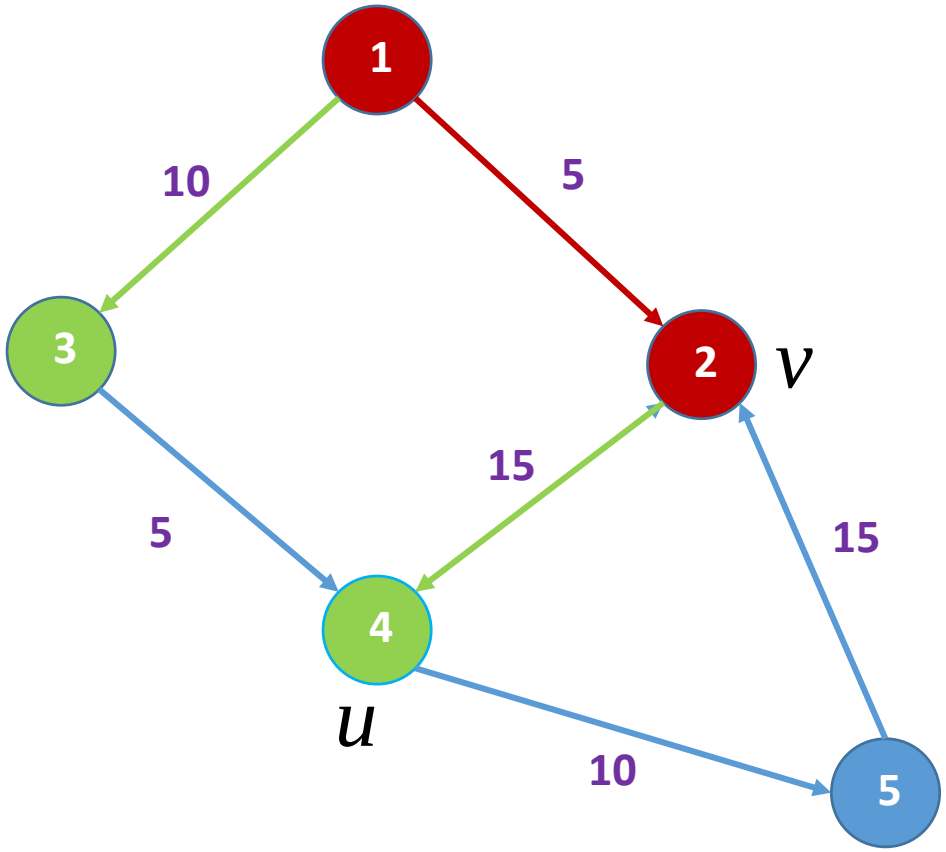
s = 1 ⟶ v = 1 ⟶ v = 2



X [1] = 1 **T[1] = 0** **H [1] = 0**
X [2] = 1 **T[2] = 5** **H [2] = 1**
X [3] = 0 **T[3] =10** **H [3] = 1**
X [4] = 0 T[4] = ∞ H [4] = 0
X [5] = 0 T[5] = ∞ H [5] = 0

M : {обновление пометок}

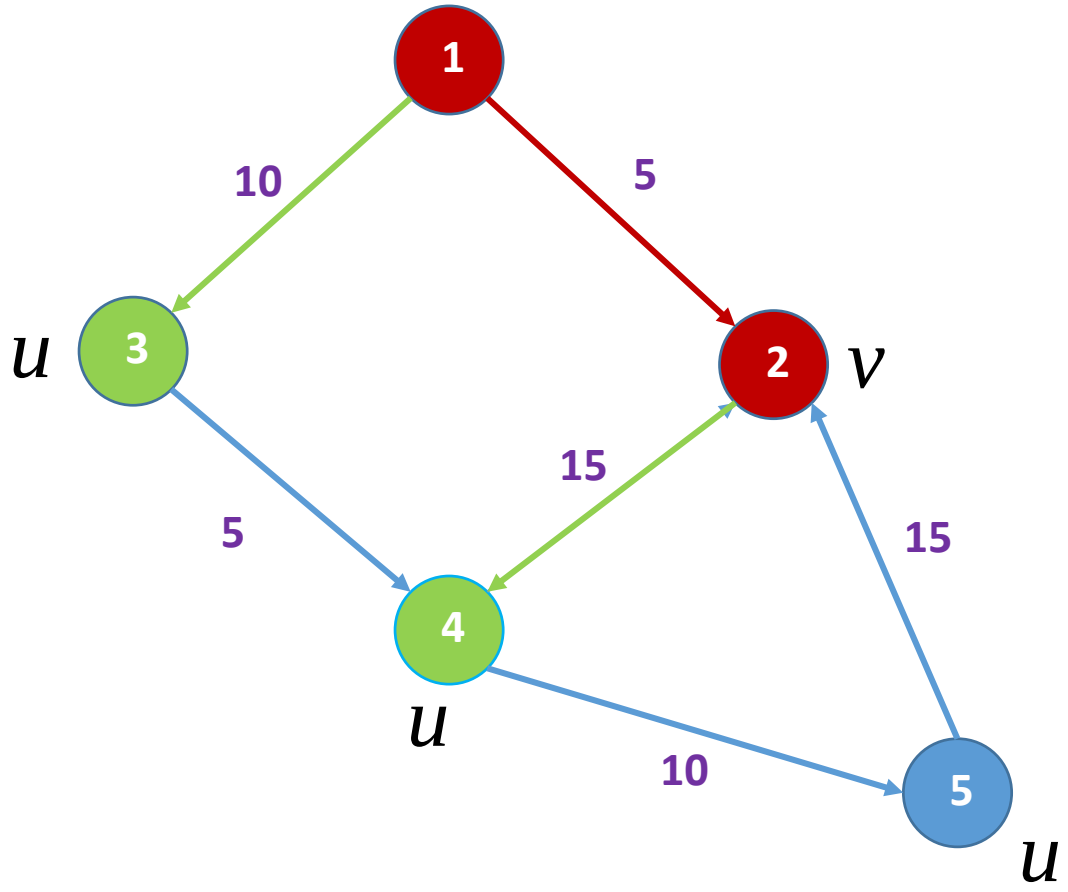
s = 1 ⟶ v = 1 ⟶ v = 2



X [1] = 1 **T[1] = 0** **H [1] = 0**
X [2] = 1 **T[2] = 5** **H [2] = 1**
X [3] = 0 **T[3] =10** **H [3] = 1**
X [4] = 0 **T[4] =20** **H [4] = 2**
X [5] = 0 T[5] = ∞ H [5] = 0

M : {обновление пометок}

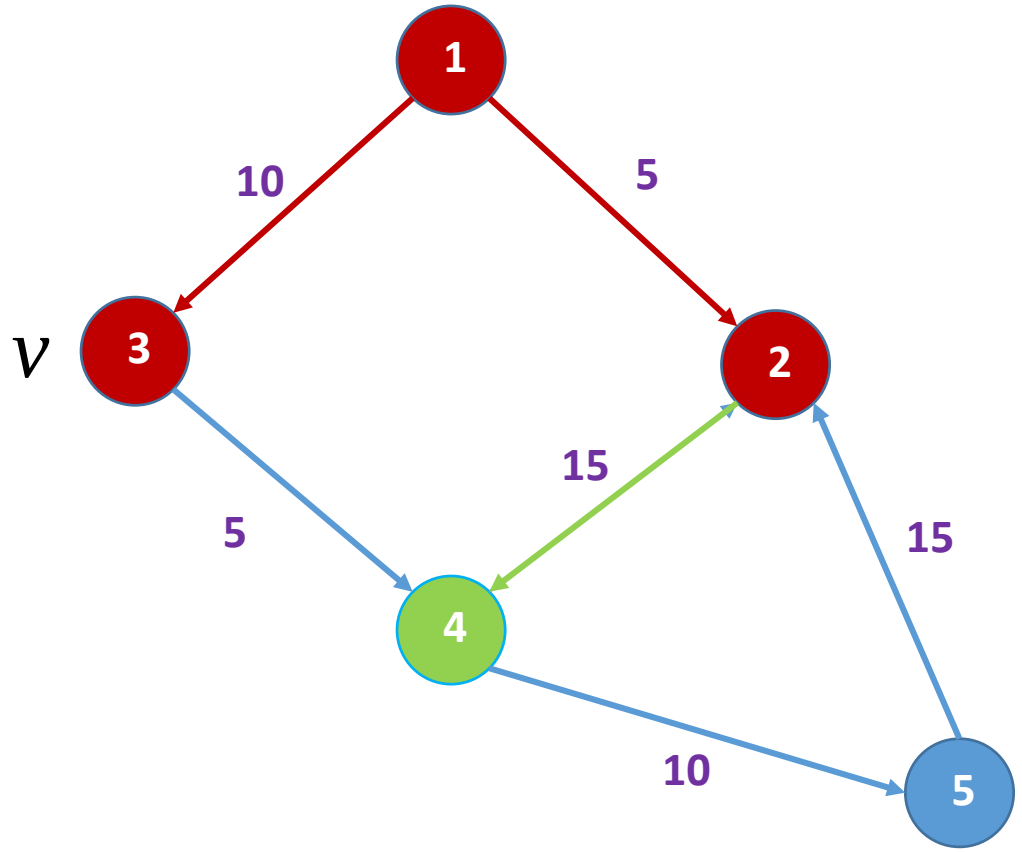
s = 1 ⟶ v = 1 ⟶ v = 2



X [1] = 1 **T[1] = 0** **H [1] = 0**
X [2] = 1 **T[2] = 5** **H [2] = 1**
X [3] = 0 **T[3] =10** **H [3] = 1**
X [4] = 0 **T[4] =20** **H [4] = 2**
X [5] = 0 T[5] = ∞ H [5] = 0

{поиск конца кратчайшего пути} m = ∞ v = 0

s = 1 ⟶ v = 1 ⟶ v = 2

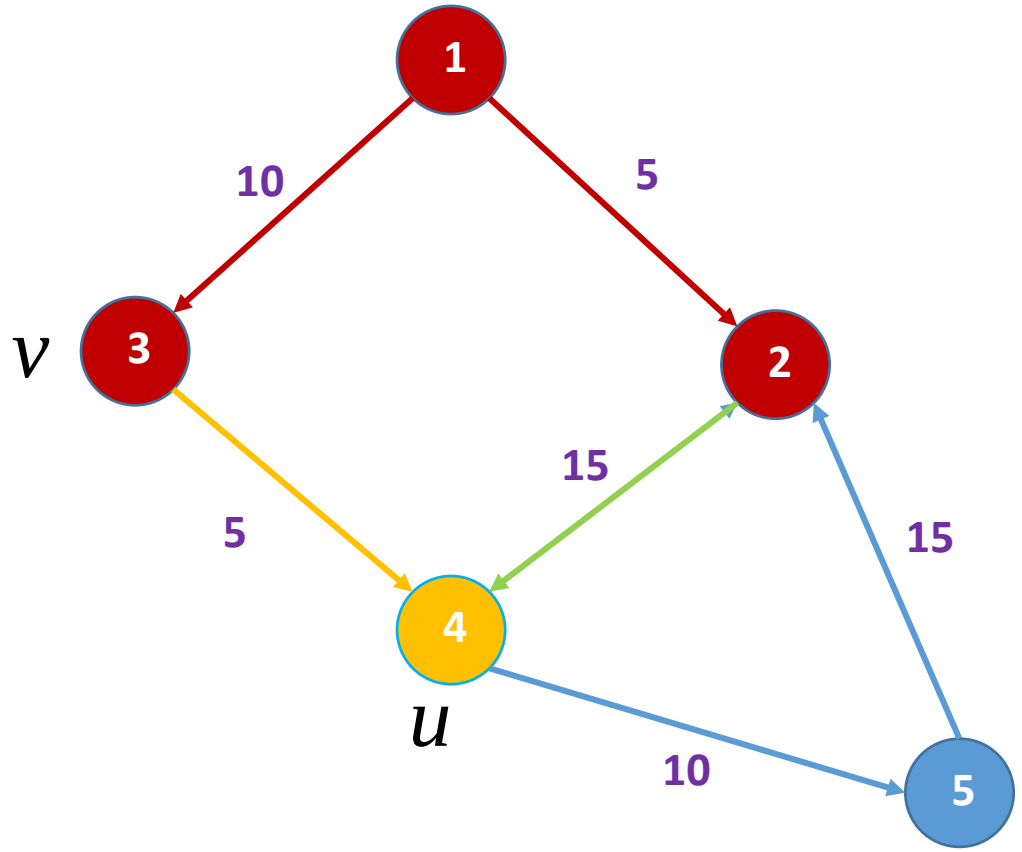


X [1] = 1 **T[1] = 0** **H [1] = 0**
X [2] = 1 **T[2] = 5** **H [2] = 1**
X [3] = 1 **T[3] =10** **H [3] = 1**
X [4] = 0 **T[4] =20** **H [4] = 2**
X [5] = 0 T[5] = ∞ H [5] = 0

{обновление опорного узла v}

m = 10 v = 3

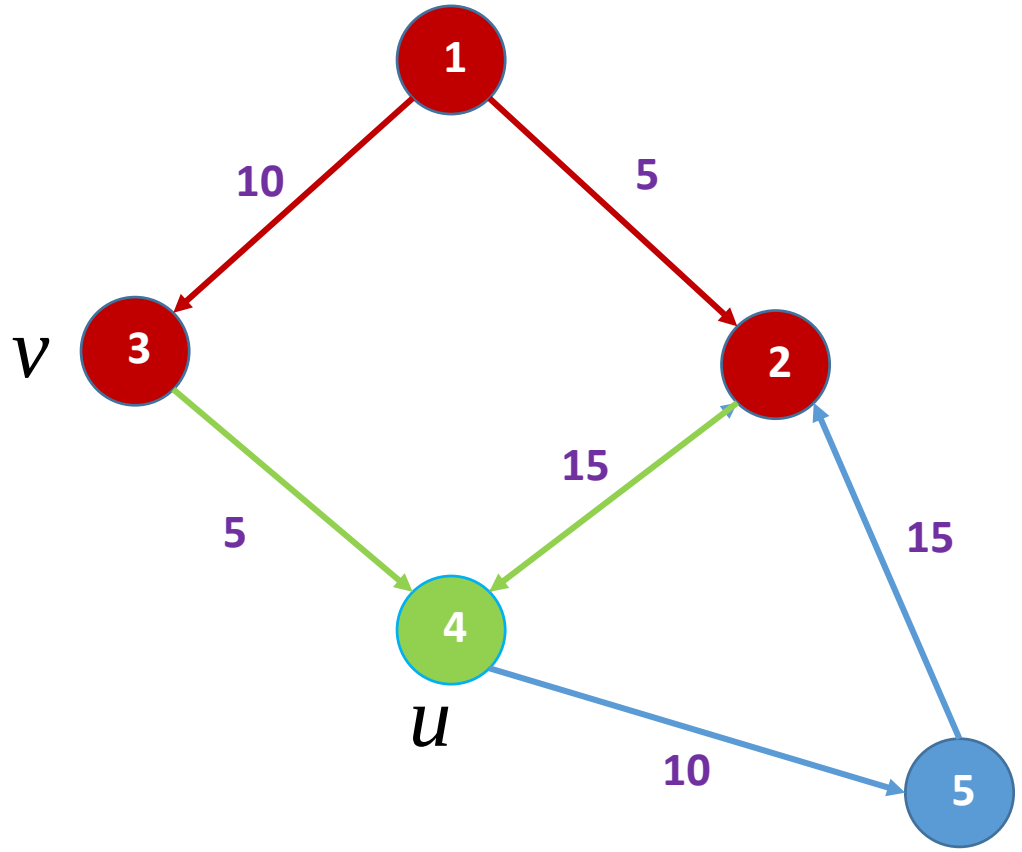
s = 1 ⟶ v = 1 ⟶ v = 2



X [1] = 1 **T[1] = 0** **H [1] = 0**
X [2] = 1 **T[2] = 5** **H [2] = 1**
X [3] = 1 **T[3] =10** **H [3] = 1**
X [4] = 0 **T[4] =20** **H [4] = 2**
X [5] = 0 T[5] = ∞ H [5] = 0

M : {обновление пометок}

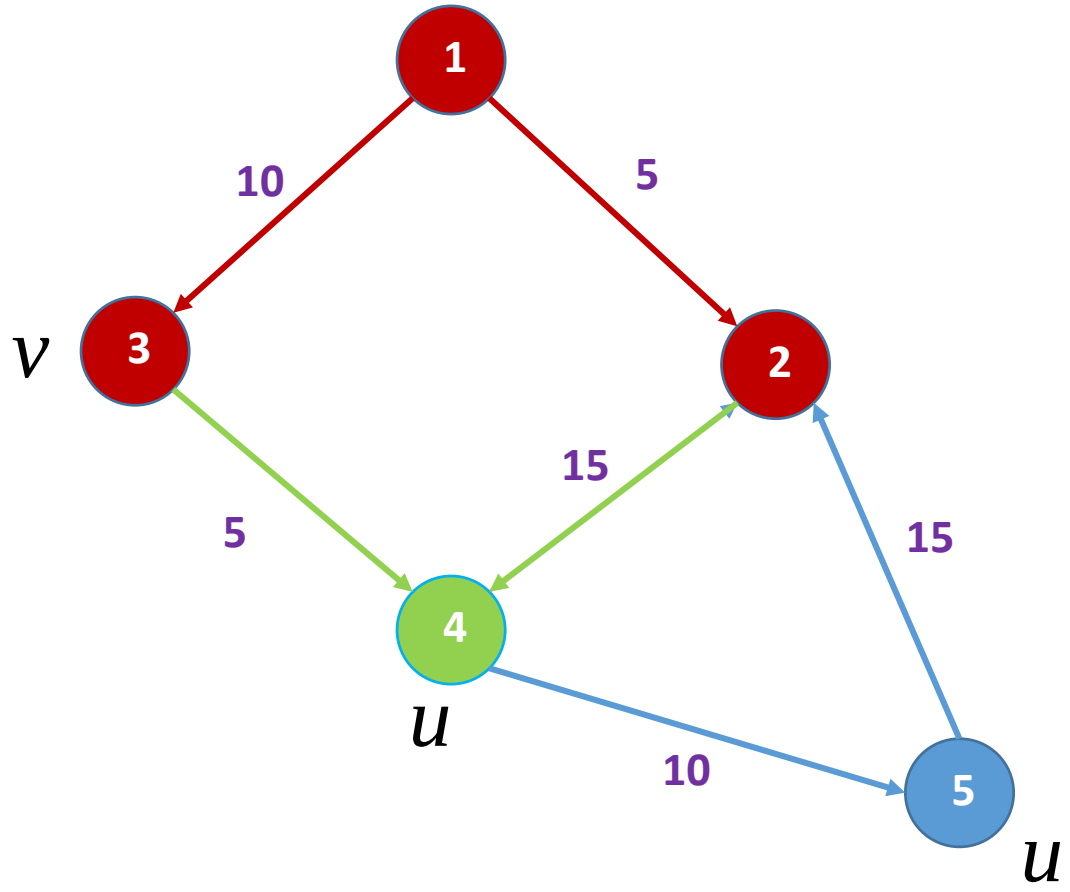
s = 1 ⟶ v = 1 ⟶ v = 2



X [1] = 1 **T[1] = 0** **H [1] = 0**
X [2] = 1 **T[2] = 5** **H [2] = 1**
X [3] = 1 **T[3] =10** **H [3] = 1**
X [4] = 0 **T[4] =15** **H [4] = 3**
X [5] = 0 T[5] = ∞ H [5] = 0

M : {обновление пометок}

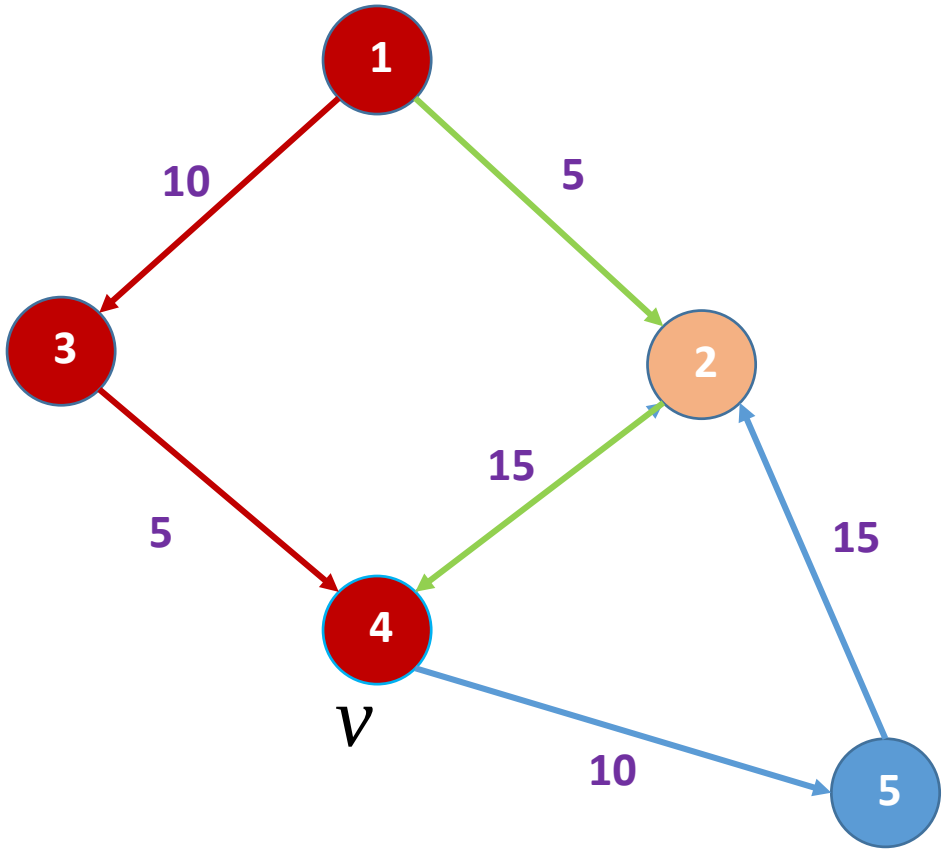
s = 1 ⟶ v = 1 ⟶ v = 2



X [1] = 1 **T[1] = 0** **H [1] = 0**
X [2] = 1 **T[2] = 5** **H [2] = 1**
X [3] = 1 **T[3] =10** **H [3] = 1**
X [4] = 0 **T[4] =15** **H [4] = 3**
X [5] = 0 T[5] = ∞ H [5] = 0

{поиск конца кратчайшего пути} m = ∞ v = 0

s = 1 ⟶ v = 1 ⟶ v = 3 ⟶ v = 4

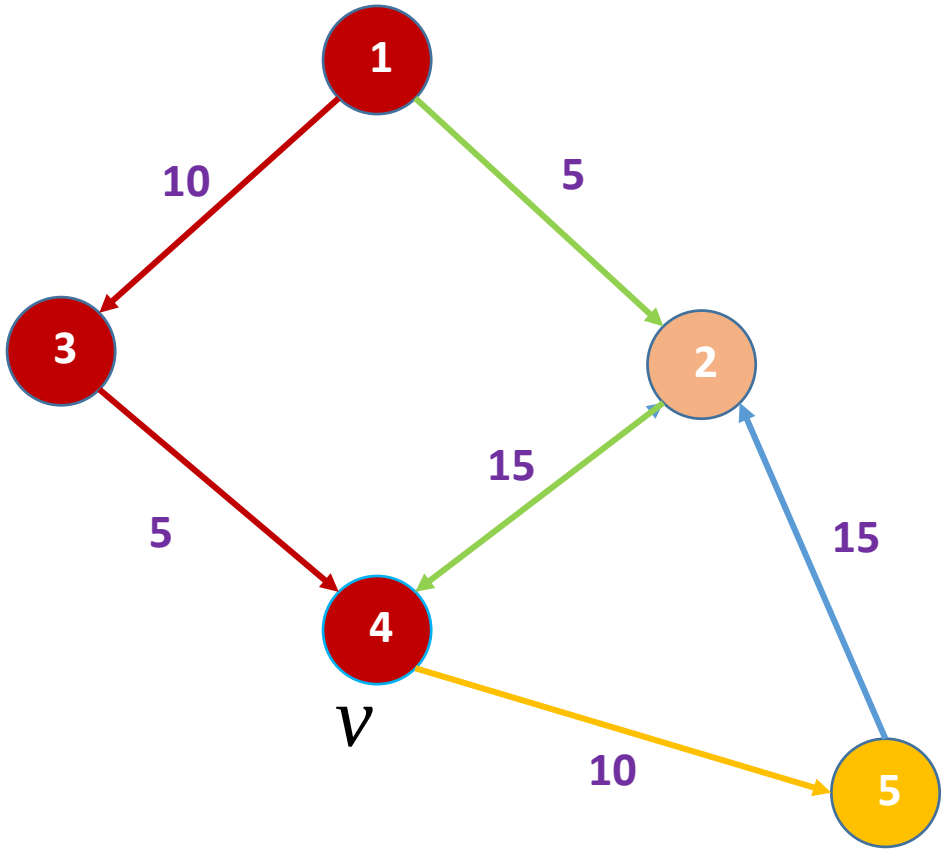


X [1] = 1 **T[1] = 0** **H [1] = 0**
X [2] = 1 **T[2] = 5** **H [2] = 1**
X [3] = 1 **T[3] =10** **H [3] = 1**
X [4] = 1 **T[4] =15** **H [4] = 3**
X [5] = 0 T[5] = ∞ H [5] = 0

{обновление опорного узла v}

m = 15 v = 4

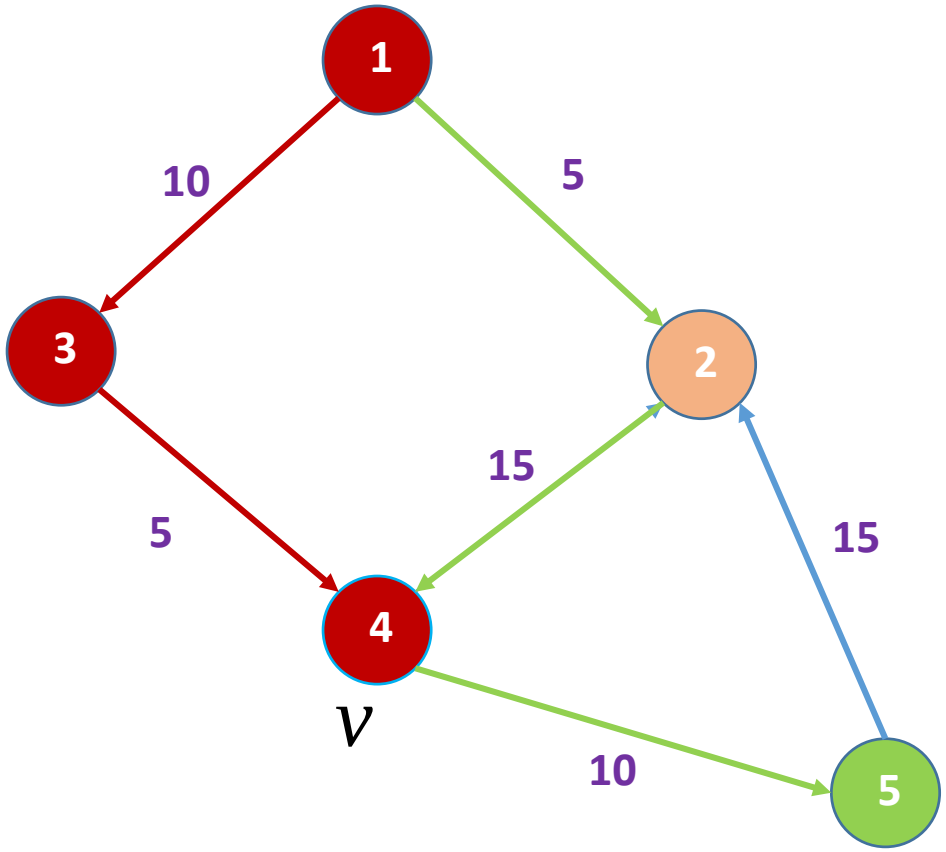
s = 1 ⟶ v = 1 ⟶ v = 3 ⟶ v = 4



X [1] = 1 **T[1] = 0** **H [1] = 0**
X [2] = 1 **T[2] = 5** **H [2] = 1**
X [3] = 1 **T[3] =10** **H [3] = 1**
X [4] = 1 **T[4] =15** **H [4] = 3**
X [5] = 0 T[5] = ∞ H [5] = 0

M : {обновление пометок}

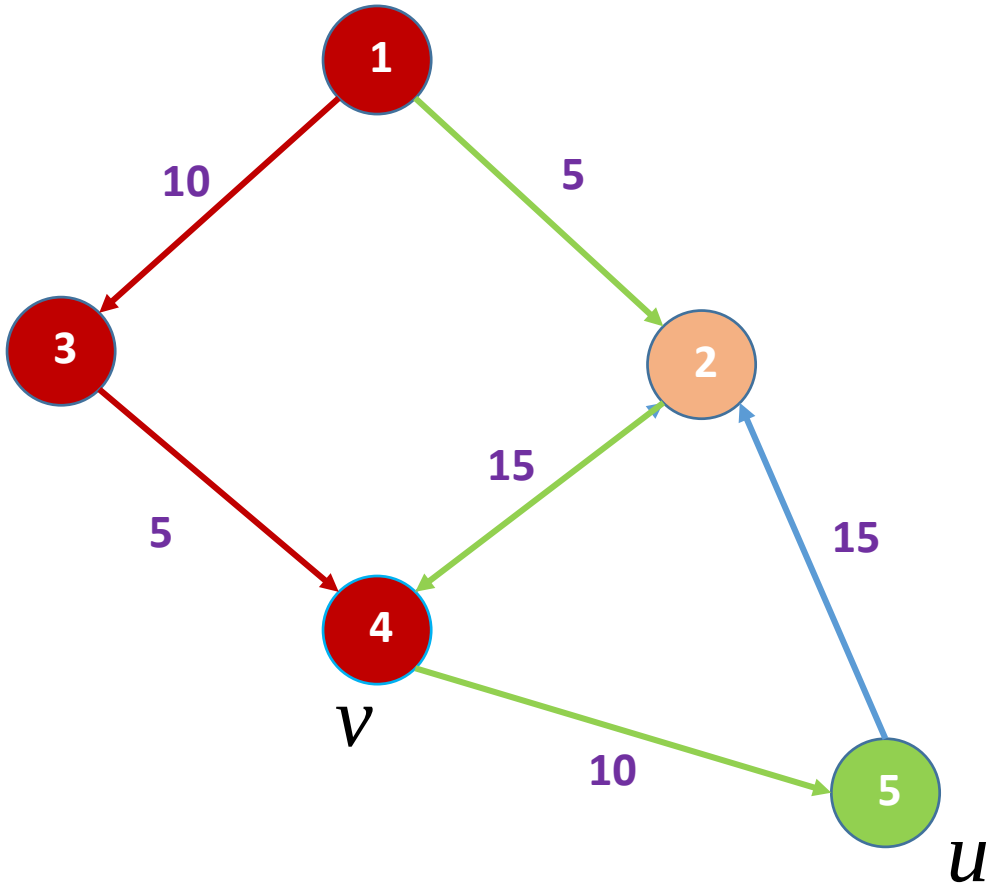
s = 1 ⟶ v = 1 ⟶ v = 3 ⟶ v = 4



X [1] = 1	T[1] = 0	H [1] = 0
X [2] = 1	T[2] = 5	H [2] = 1
X [3] = 1	T[3] =10	H [3] = 1
X [4] = 1	T[4] =15	H [4] = 3
X [5] = 0	T[5] =25	H [5] = 4

M : {обновление пометок}

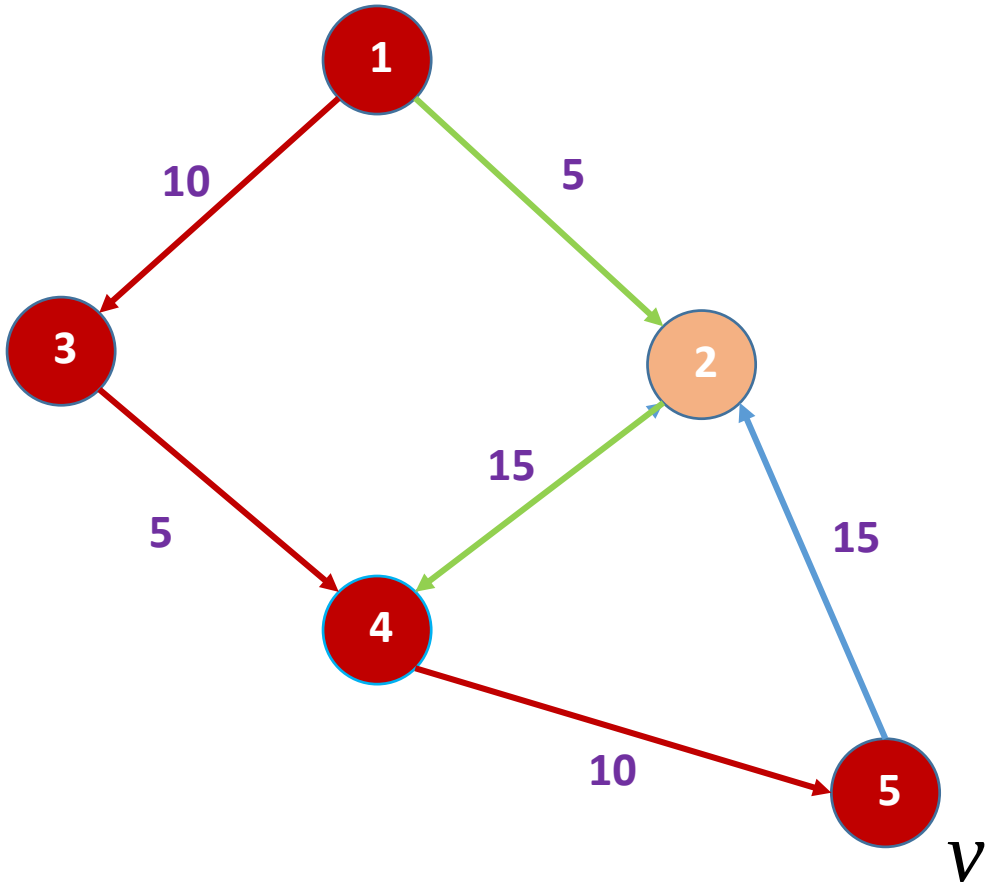
s = 1 ⟶ v = 1 ⟶ v = 3 ⟶ v = 4



X [1] = 1 **T[1] = 0** **H [1] = 0**
X [2] = 1 **T[2] = 5** **H [2] = 1**
X [3] = 1 **T[3] =10** **H [3] = 1**
X [4] = 1 **T[4] =15** **H [4] = 3**
X [5] = 0 **T[5] =25** **H [5] = 4**

{поиск конца кратчайшего пути} m = ∞ v = 0

s = 1 ⟶ v = 1 ⟶ v = 3 ⟶ v = 4 ⟶ v = 5

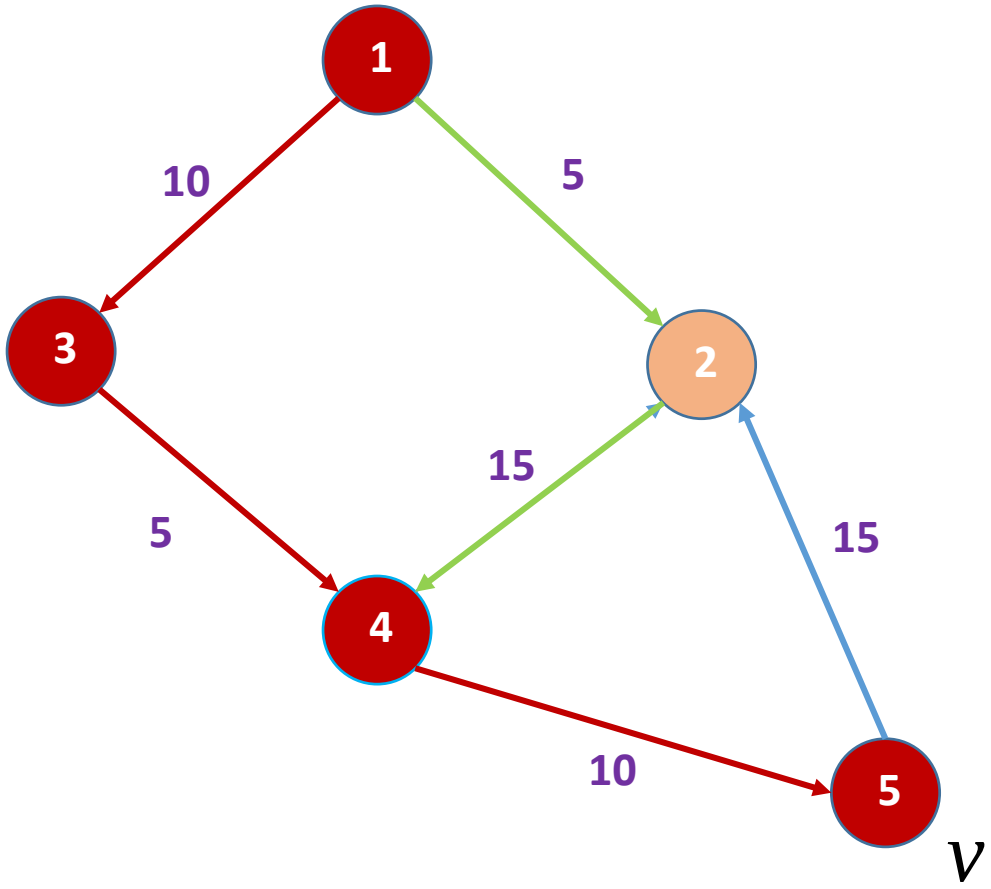


X [1] = 1	T[1] = 0	H [1] = 0
X [2] = 1	T[2] = 5	H [2] = 1
X [3] = 1	T[3] =10	H [3] = 1
X [4] = 1	T[4] =15	H [4] = 3
X [5] = 1	T[5] =25	H [5] = 4

{обновление опорного узла v}

m = 25 v = 5

s = 1 ⟶ v = 1 ⟶ v = 3 ⟶ v = 4 ⟶ v = 5

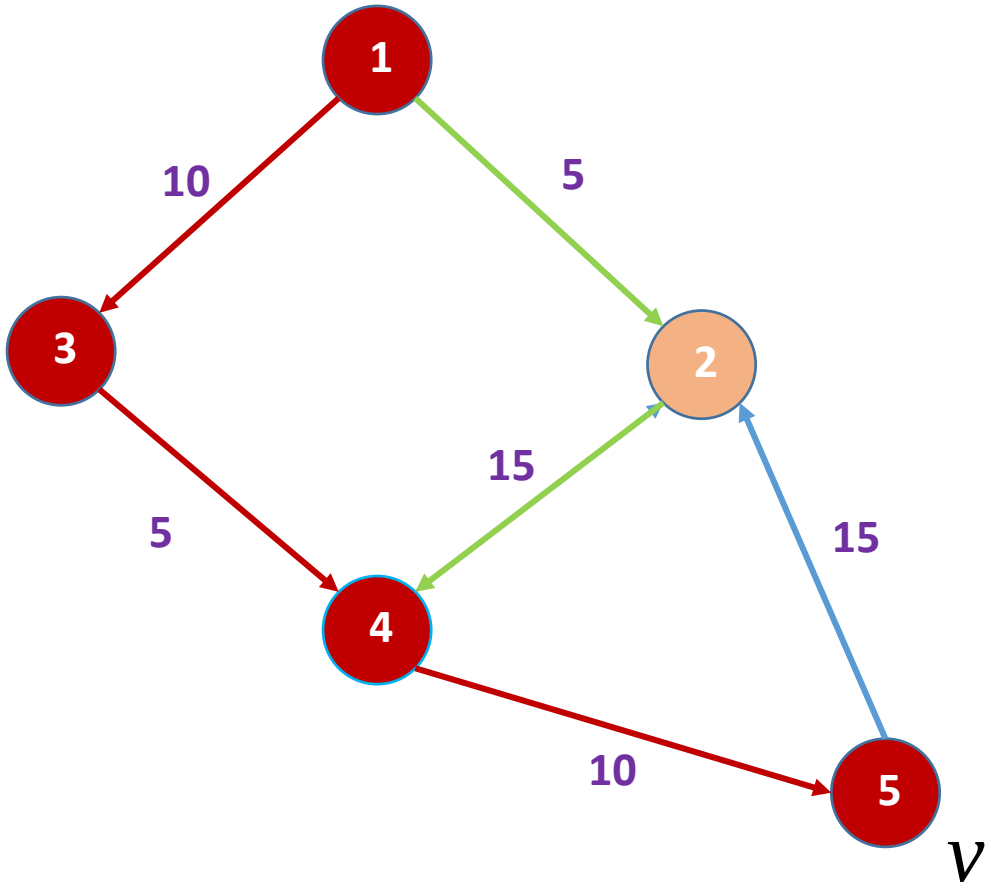


X [1] = 1 **T[1] = 0** **H [1] = 0**
X [2] = 1 **T[2] = 5** **H [2] = 1**
X [3] = 1 **T[3] =10** **H [3] = 1**
X [4] = 1 **T[4] =15** **H [4] = 3**
X [5] = 1 **T[5] =25** **H [5] = 4**

{проверка условия остановки}

v = 5 = t

s = 1 ⟶ v = 1 ⟶ v = 3 ⟶ v = 4 ⟶ v = 5



X [1] = 1
X [2] = 1
X [3] = 1
X [4] = 1
X [5] = 1

T[1] = 0
T[2] = 5
T[3] =10
T[4] =15
T[5] =25

H [1] = 0
H [2] = 1
H [3] = 1
H [4] = 3
H [5] = 4

{проверка условия остановки}

v = 5 = t ⟶ **STOP**