Input 1 :-

const servers = {

"us\_east" : {

"large": 0.14,

"xlarge": 0.23

},

"us\_west" : {

"large": 0.21,

"2xlarge": 0.413

},

"asia": {

"large": 0.15,

"4xlarge": 0.19

}

};

Hours = 6

CPUs = 32

Price = 48.00

Output :-

[

{ region: 'asia', total\_cost: '$0.24', servers: [ '4xlarge': 1 ] },

{ region: 'us\_west', total\_cost: '$1.03', servers: [ '2xlarge': 2 ] },

{ region: 'us\_east', total\_cost: '$1.15', servers: [ xlarge: 5 ] }

]

Input 2 :-

const servers = {

"us\_east" : {

"large": 0.14,

"xlarge": 0.23

},

"us\_west" : {

"large": 0.21,

"2xlarge": 0.413

},

"asia": {

"large": 0.15,

"4xlarge": 0.19

}

};

Hours = 6

CPUs = 32

Price = 48.20

Output :-

[

{ region: 'asia', total\_cost: '$0.24', servers: [ '4xlarge': 1 ] },

{ region: 'us\_west', total\_cost: '$1.03', servers: [ '2xlarge': 2 ] },

{ region: 'us\_east', total\_cost: '$1.15', servers: [ xlarge: 5 ] }

]

Input 3 :-

const servers = {

"us\_east" : {

"large": 0.14,

"xlarge": 0.23

},

"us\_west" : {

"large": 0.21,

"2xlarge": 0.413

},

"asia": {

"large": 0.15,

"4xlarge": 0.19

}

};

Hours = 4

CPUs = 24

Price = 27.00

Output :-

[

{ region: 'asia', total\_cost: '$0.19’', servers: [ '4xlarge': 1 ] },

{ region: 'us\_west', total\_cost: '$0.83', servers: [ '2xlarge': 2 ] },

{ region: 'us\_east', total\_cost: '$0.92’', servers: [ xlarge: 4 ] }

]

Input 4 :-

const servers = {

"us\_east" : {

"large": 0.14,

"xlarge": 0.23

},

"us\_west" : {

"large": 0.21,

"2xlarge": 0.413

},

"asia": {

"large": 0.15,

"4xlarge": 0.19

}

};

Hours = 4

CPUs = 24

Price = 27.10

Output :-

[

{ region: 'asia', total\_cost: '$0.19’', servers: [ '4xlarge': 1 ] },

{ region: 'us\_west', total\_cost: '$0.83', servers: [ '2xlarge': 2 ] },

{ region: 'us\_east', total\_cost: '$0.92’', servers: [ xlarge: 4 ] }

]

Input 5 :-

const servers = {

"us\_east" : {

"large": 0.14,

"xlarge": 0.23,

"2xlarge": 0.09

},

"us\_west" : {

"large": 0.21,

"2xlarge": 0.413,

"xlarge": 0.31

},

"asia": {

"large": 0.15,

"4xlarge": 0.19,

"2xlarge": 0.29

}

};

Hours = 6

CPUs = 32

Price = 48.00

Output :-

[

{

region: 'asia',

total\_cost: '$0.96',

servers: [ '4xlarge': 1, '2xlarge': 2 ]

},

{

region: 'us\_east',

total\_cost: '$1.3699999999999999',

servers: [ '2xlarge': 2, xlarge: 5 ]

},

{

region: 'us\_west',

total\_cost: '$2.58',

servers: [ '2xlarge': 2, xlarge: 5 ]

}

]

Input 6 :-

const servers = {

"us\_east" : {

"large": 0.14,

"xlarge": 0.23,

"2xlarge": 0.09

},

"us\_west" : {

"large": 0.21,

"2xlarge": 0.413,

"xlarge": 0.31

},

"asia": {

"large": 0.15,

"4xlarge": 0.19,

"2xlarge": 0.29

}

};

Hours = 6

CPUs = 32

Price = 48.20

Output :-

[

{

region: 'asia',

total\_cost: '$0.77',

servers: [ '4xlarge': 1, '2xlarge': 2 ]

},

{

region: 'us\_east',

total\_cost: '$1.1',

servers: [ '2xlarge': 2, xlarge: 4 ]

},

{

region: 'us\_west',

total\_cost: '$2.07',

servers: [ '2xlarge': 2, xlarge: 4 ]

}

]

Input 7 :-

const servers = {

"us\_east" : {

"large": 0.14,

"xlarge": 0.23,

"2xlarge": 0.09

},

"us\_west" : {

"large": 0.21,

"2xlarge": 0.413,

"xlarge": 0.31

},

"asia": {

"large": 0.15,

"4xlarge": 0.19,

"2xlarge": 0.29

}

};

Hours = 4

CPUs = 24

Price = 27.00

Output :-

[

{

region: 'asia',

total\_cost: '$0.96',

servers: [ '4xlarge': 1, '2xlarge': 2 ]

},

{

region: 'us\_east',

total\_cost: '$1.3699999999999999',

servers: [ '2xlarge': 2, xlarge: 5 ]

},

{

region: 'us\_west',

total\_cost: '$2.58',

servers: [ '2xlarge': 2, xlarge: 5 ]

}

]

Input 8 :-

const servers = {

"us\_east" : {

"large": 0.14,

"xlarge": 0.23,

"2xlarge": 0.09

},

"us\_west" : {

"large": 0.21,

"2xlarge": 0.413,

"xlarge": 0.31

},

"asia": {

"large": 0.15,

"4xlarge": 0.19,

"2xlarge": 0.29

}

};

Hours = 4

CPUs = 24

Price = 27.10

Output :-

[

{

region: 'asia',

total\_cost: '$0.77',

servers: [ '4xlarge': 1, '2xlarge': 2 ]

},

{

region: 'us\_east',

total\_cost: '$1.1',

servers: [ '2xlarge': 2, xlarge: 4 ]

},

{

region: 'us\_west',

total\_cost: '$2.07',

servers: [ '2xlarge': 2, xlarge: 4 ]

}

]