```
function solution1_2_sol() {
    let input = gets().split(' ');
    let node = gets().split(' ');
     let nodes = node.slice();
    let ans = 0;
    //입력
     let edge = Array.from(Array(Number(input[1])), () => Array(3));
     for (let i = 0; i < Number(input[1]); i++) {
         let line = gets().split(' ');
         edge[i][0] = Number(line[2]);
         edge[i][1] = line[0];
         edge[i][2] = line[1];
    }
     edge = edge.sort((a, b) => {
         return a[0] >= b[0] ? 1 : -1;
     });
     function UnionNode(parent, child) {
         for (let i = 0; i < nodes.length; i++) {
              if (nodes[i] == child) {
                   nodes[i] = parent;
              }
         }
    }
     for (let i of edge) {
         if (nodes[node.indexOf(i[1])] == nodes[node.indexOf(i[2])]) continue;
         if (nodes[node.indexOf(i[1])] != i[1]) {
              UnionNode(nodes[node.indexOf(i[1])], i[2]);
         } else if (nodes[node.indexOf(i[2])] != i[2]) {
              UnionNode(nodes[node.indexOf(i[2])], i[1]);
         } else {
              UnionNode(i[1], i[2]);
         ans += i[0];
     print(ans);
}
function solution2_1_sol() {
     let input = gets().split(' ');
    let node = gets().split(' ');
    //입력
    let edge = Array.from(Array(Number(input[1])), () => Array(3));
     for (let i = 0; i < Number(input[1]); i++) {
         let line = gets().split(' ');
         edge[i][0] = Number(line[2]);
         if (line[0] > line[1]) {
              edge[i][1] = line[0];
              edge[i][2] = line[1];
         } else {
              edge[i][1] = line[1];
              edge[i][2] = line[0];
         }
    }
```

```
edge = edge.sort((a, b) => {
         if (a[0] != b[0]) {
              return a[0] - b[0];
         } else {
              if (a[1] == b[1]) {
                   return a[2] > b[2];
              } else {
                   return a[1] > b[1] ? 1 : -1;
         }
    });
     function union(li) {
         let ans = 0;
         let nodes = node.slice();
         for (let i of li) {
              if \ (nodes[node.indexOf(i[1])] \ == \ nodes[node.indexOf(i[2])]) \ continue; \\
              if (nodes[node.indexOf(i[1])] != i[1]) {
                    UnionNode(nodes[node.indexOf(i[1])], i[2]);
              } else if (nodes[node.indexOf(i[2])] != i[2]) {
                    UnionNode(nodes[node.indexOf(i[2])], i[1]);
              } else {
                    UnionNode(i[1], i[2]);
              ans += i[0];
         }
         function UnionNode(parent, child) {
              for (let i = 0; i < nodes.length; i++) {
                   if (nodes[i] == child) {
                        nodes[i] = parent;
                   }
              }
         }
         return ans;
    let m = union(edge);
    let ansarr = [];
     for (let j = 0; j < edge.length; <math>j++) {
         let cop = edge.slice();
         cop.splice(j, 1);
         ansarr.push(union(cop));
    }
     ansarr = ansarr.filter((v, i) => {
         return ansarr.indexOf(v) === i
     ansarr.sort((a, b) => a - b);
     if (ansarr[0] == m) {
         print(ansarr[1]);
    } else {
         print(ansarr[0]);
    }
function solution3 1() {
    let input = gets().split(' ');
```

}

```
let self = gets().split(' ');
    //간선의 최소 길이
    let min = Array(self.length + 1).fill(101);
    //최소로 가는 간선 => index => value
    let select = Array(self.length + 1).fill(0);
    let graph = Array.from(Array(self.length + 1), () => Array(self.length + 1).fill(101));
    for (let i = 0; i < self.length; i++) {
         graph[i + 1][i + 1] = Number(self[i]);
    for (let i = 0; i < Number(input[1]); i++) {
         let temp = gets().split(' ');
         graph[Number(temp[0])][Number(temp[1])] = Number(temp[2]);
         graph[Number(temp[1])][Number(temp[0])] = Number(temp[2]);
    //graph.length == self.length + 1;
    //graph[0][0] == 101
    //graph[0][...] == 101
    //graph[...][0] == 101
    //graph의 최대값 == 101
    let ans = 0;
    //행에서의 최소값과 인덱스를 리턴
    function get_line_min(line) {
        let arr = [101, 0];
         for (let i = 1; i <= line.length; i++) {
             //비용이 같으면 선택이 안되었던것을 고름
             if (arr[0] > line[i] ) {
                  arr[0] = line[i];
                  arr[1] = i;
             }
        }
         return arr;
    function prim(start, end, graph) {
         //행으로
         for (let i = start; i <= end; i++) {
             let min_line = get_line_min(graph[i]);
             min[i] = min_line[0];
             select[i] = min_line[1];
        }
    prim(1, self.length, graph);
    //위성 기지국 설치
    //앞이 좋을경우
    //뒤가 좋을경우
    for(let i = 1; i \le self.length; i++){
         if(select[i] == i) ans += graph[i][i];
         else ans += graph[i][select[i]];
    print(ans);
function solution3_2() {
```

}

```
let input = gets().split(' ');
let town = Number(input[0]);
let amount = Number(input[1]);
let nodes = gets().split(' ');
let group = Array(town + 1);
let select = Array(town + 1).fill(false);
let min = Array(town + 1);
let graph = Array.from(Array(town + 1), () => Array(town + 1).fill(101));
for (let i = 1; i <= town; i++) {
    graph[i][i] = Number(nodes[i - 1]);
    group[i] = i;
    min[i] = graph[i][i];
for (let i = 0; i < amount; i++) {
    let temp = gets().split(' ');
    graph[Number(temp[0])][Number(temp[1])] = Number(temp[2]);
    graph[Number(temp[1])][Number(temp[0])] = Number(temp[2]);
function get_min(n) {
    let v;
    for (let i = 1; i \le n; i++) {
         if (select[i] == false) {
              v = i;
              break;
         }
    }
    for (let i = 1; i \le n; i++) {
         if (select[i] == false && (min[i] < min[v])) {
              v = i;
         }
    }
    return v;
let ansr = [];
function prim(n) {
    for (let i = 1; i \le n; i++) {
         let u = get_min(n);
         select[u] = true;
         if (min[u] == 101) return;
         ansr.push(u);
         for (let v = 1; v <= n; v++) {
              if (graph[u][v] != 101) {
                   if (select[v] == false && graph[u][v] < min[v]) {
                        min[v] = graph[u][v];
                        group[v] = u;
                  }
              }
         }
    }
min[0] = 0;
prim(amount);
let ans = min.reduce((a, b) => a + b, 0);
print(ans, ' ', ...ansr, ' ', ...group);
```