**Qualifying test for Junior Document Generation Specialist role**

Please answer the following questions with reference to the provided file `data.json`.

1. Write a JS expression that returns the number of DIRECTORS.

2. Write a JS expression that returns the number of SHAREHOLDERS.

3. Write a JS expression that lists the full names of all position holders.

4A. Is Product B hardware or software?

4B. Does Product A have a price of “100”?

4C. Is the launch date of Product B the 6th January 2010?

5. Write a JS expression that prints the effective date formatted in YYYY-MMM-DD format.

6. What is the JSON address in object notation that stores Robert Johnson’s email address?

7. Write a JS expression that returns an array of all unique email domains of the position holders.

8. Write a JS expression that returns an array of objects containing the names and email addresses of all DIRECTORS.

9. Write a JS function that takes an email domain as a parameter and returns an array of objects containing the names, email addresses, and corresponding \_id of all position holders whose email addresses belong to the specified domain.

10. Write a JavaScript function that returns an array of objects containing the names and email addresses of the top 3 shareholders with the highest number of shares. The function should only consider shareholders whose email addresses belong to the “example.com” domain.

To determine the top shareholders, consider the following criteria:

* The number of shares held by each shareholder is stored in a separate array called “shareholdings”, you need to correlate this with the “global.positions” array.
* The order of shareholders in the “global.positions” array corresponds to the order of their shareholdings in the “shareholdings” array.
* The length of the “shareholdings” array is equal to the number of shareholders.

Data.json contents:

{

"DataProvider": {

"signer": "blah",

"registeredAgent": {

"user": {

"name": "Paul Roberts",

"email": "paul@dasifhaewf.com"

},

"address": "5 Street Lane",

"identityId": "50f98f3jdidedeuwii0bcc1"

},

"effectiveDate": "2023-05-23T17:17:40.180Z",

"withImmediateEffect": false,

"coyIds": [

"abc",

"def",

"ghi",

"klm"

],

"global": {

"positions": [

{

"\_id": "12345",

"type": "DIRECTOR",

"profile": {

"name": "John Doe",

"email": "johndoe@gmail.com"

}

},

{

"\_id": "23456",

"type": "DIRECTOR",

"profile": {

"name": "James Smith",

"email": "jimmy@smith.com"

}

},

{

"\_id": "34567",

"type": "DIRECTOR",

"profile": {

"name": "Robert Johnson",

"email": "robert@johnson.com"

}

},

{

"\_id": "45678",

"type": "DIRECTOR",

"profile": {

"name": "Emily Brown",

"email": "emily@brown.com"

}

},

{

"\_id": "56789",

"type": "SHAREHOLDER",

"profile": {

"name": "Sarah Davis",

"email": "sarah.davis@example.com"

}

},

{

"\_id": "67890",

"type": "SHAREHOLDER",

"profile": {

"name": "Michael Wilson",

"email": "michael.wilson@example.com"

}

},

{

"\_id": "78901",

"type": "SHAREHOLDER",

"profile": {

"name": "Emma Thompson",

"email": "emma@thompson.com"

}

},

{

"\_id": "89012",

"type": "DIRECTOR",

"profile": {

"name": "Daniel Johnson",

"email": "daniel@johnson.com"

}

},

{

"\_id": "90123",

"type": "SHAREHOLDER",

"profile": {

"name": "Oliver Taylor",

"email": "oliver@taylor.com"

}

},

{

"\_id": "01234",

"type": "SHAREHOLDER",

"profile": {

"name": "Sophia Martinez",

"email": "sophia@example.com"

}

},

{

"\_id": "12340",

"type": "SHAREHOLDER",

"profile": {

"name": "Benjamin Williams",

"email": "ben@williams.com"

}

},

{

"\_id": "23401",

"type": "SHAREHOLDER",

"profile": {

"name": "Lucas Brown",

"email": "lucas@brown.com"

}

},

{

"\_id": "34012",

"type": "SHAREHOLDER",

"profile": {

"name": "Mia Davis",

"email": "mia@example.com"

}

}

],

"departments": [

{

"\_id": "001",

"name": "Marketing",

"head": {

"name": "Alice Thompson",

"email": "alice@example.com"

},

"employees": 30

},

{

"\_id": "002",

"name": "Human Resources",

"head": {

"name": "Bob Johnson",

"email": "bob@johnson.com"

},

"employees": 20

},

{

"\_id": "003",

"name": "Finance",

"head": {

"name": "Charlie Brown",

"email": "charlie@brown.com"

},

"employees": 25

}

]

},

"shareholdings": [

1000,

500,

800,

1200,

750,

950,

1100,

650

],

"companyDetails": {

"name": "Fictitious Company",

"address": "123 Fictitious Lane",

"industry": "Information Technology",

"established": "2000-01-01T00:00:00.000Z",

"employees": 200,

"revenue": 1000000

},

"products": [

{

"name": "Product A",

"category": "Software",

"launchDate": "2005-06-01T00:00:00.000Z",

"price": 100

},

{

"name": "Product B",

"category": "Hardware",

"launchDate": "2010-06-01T00:00:00.000Z",

"price": 200

}

],

"businessOperations": {

"locations": [

"New York",

"San Francisco",

"London",

"Berlin",

"Sydney"

],

"partners": [

{

"name": "Partner Company A",

"address": "456 Partner Street",

"industry": "Finance",

"contact": {

"name": "David Williams",

"email": "david@partnerA.com"

}

},

{

"name": "Partner Company B",

"address": "789 Partner Avenue",

"industry": "Manufacturing",

"contact": {

"name": "Evelyn Davis",

"email": "evelyn@partnerB.com"

}

}

],

"competitors": [

"Competitor Company A",

"Competitor Company B"

]

}

}

}