Final Exam

Final: Question 3

Problem:

Consider the following collection documents:

COPY

```
db.people.find()
{ "_id" : 0, "name" : "Bernice Pope", "age" : 69, "date" :
ISODate("2017-10-04T18:35:44.011Z") }
{ "_id" : 1, "name" : "Eric Malone", "age" : 57, "date" :
ISODate("2017-10-04T18:35:44.014Z") }
{ "_id" : 2, "name" : "Blanche Miller", "age" : 35, "date" :
ISODate("2017-10-04T18:35:44.015Z") }
{ "_id" : 3, "name" : "Sue Perez", "age" : 64, "date" :
ISODate("2017-10-04T18:35:44.016Z") }
{ "_id" : 4, "name" : "Ryan White", "age" : 39, "date" :
ISODate("2017-10-04T18:35:44.019Z") }
{ "_id" : 5, "name" : "Grace Payne", "age" : 56, "date" :
ISODate("2017-10-04T18:35:44.020Z") }
{ "_id" : 6, "name" : "Jessie Yates", "age" : 53, "date" :
ISODate("2017-10-04T18:35:44.020Z") }
{ "_id" : 7, "name" : "Herbert Mason", "age" : 37, "date" :
ISODate("2017-10-04T18:35:44.020Z") }
{ "_id" : 8, "name" : "Jesse Jordan", "age" : 47, "date" :
ISODate("2017-10-04T18:35:44.020Z") }
{ "_id" : 9, "name" : "Hulda Fuller", "age" : 25, "date" :
ISODate("2017-10-04T18:35:44.020Z") }
```

And the aggregation pipeline execution result:

COPY

```
db.people.aggregate(pipeline)
{ "_id" : 8, "names" : [ "Sue Perez" ], "word" : "P" }
{ "_id" : 9, "names" : [ "Ryan White" ], "word" : "W" }
{ "_id" : 10, "names" : [ "Eric Malone", "Grace Payne" ], "word"
: "MP" }
{ "_id" : 11, "names" : [ "Bernice Pope", "Jessie Yates", "Jesse
Jordan", "Hulda Fuller" ], "word" : "PYJF" }
{ "_id" : 12, "names" : [ "Herbert Mason" ], "word" : "M" }
{ "_id" : 13, "names" : [ "Blanche Miller" ], "word" : "M" }
```

Which of the following pipelines generates the output result?

Attempts Remaining: Correct Answer

Choose the best answer:

```
var pipeline = [{
    "$project": {
      "surname": { "$arrayElemAt": [ {"$split": [
"$name", " " ] }, 1]},
      "name_size": {  "$add" : [{"$strLenCP": "$name"},
-1]},
      "name":1
    }
  },
  {
    "$group": {
      "_id": "$name_size",
      "word": { "$addToSet": {"$substr":
[{"$toUpper":"$name"}, 3, 2]} },
      "names": {"$push": "$surname"}
    }
  },
  {
    "$sort": {"_id": -1}
  }
]
```

```
var pipeline = [{
    "$project": {
      "surname_capital": { "$substr": [{"$arrayElemAt":
```

```
[ {"$split": [ "$name", " " ] }, 1]}, 0, 1 ] },
      "name_size": {  "$add" : [{"$strLenCP": "$name"},
-1]},
      "name": 1
    }
  },
  {
    "$group": {
      "_id": "$name_size",
      "word": { "$push": "$surname_capital" },
```

Correct! SEE DETAILED ANSWER

```
    }
  },
  {
    "$project": {
      "word": {
        "$reduce": {
          "input": "$word",
          "initialValue": "",
          "in": { "$concat": ["$$value", "$$this"] }
        }
      },
      "names": 1
    }
  },
  {
    "$sort": { "_id": 1}
  }
]
```

```
var pipeline = [{
    "$sort": { "date": 1 }
  },
  {
    "$group": {
      "_id": { "$size": { "$split": ["$name", " "]} },
      "names": {"$push": "$name"}
    }
  },
  {
    "$project": {
      "word": {
```

```
        "$zip": {
          "inputs": ["$names"],
          "useLongestLength": false,
        }
      },
      "names": 1
    }
  }]
```

Correct!

See detailed answer

Proceed to next section

Assignment is Due

13d:05hr:17m
Dec 17, 17:00 UTC

Your Grade

PASS/FAIL
Submitted