

# Output part 1

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→ [CS602\\_HW1\\_Ramirez\\_Pedro](#) node part1.js

Read 77 courses

-----  
\* Lookup by CourseId CS 111

[]

-----  
\* Lookup by CourseId CS 602

[ { course\_id: 'CS 602', course\_name: 'Server-Side Web Development' } ]

-----  
\* Lookup by CourseId ^CS 2

[

{

  course\_id: 'CS 200',

  course\_name: 'Introduction to Computer Information Systems'

},

{ course\_id: 'CS 201', course\_name: 'Introduction to Programming' },

{ course\_id: 'CS 231', course\_name: 'Programming with C++' },

{ course\_id: 'CS 232', course\_name: 'Programming with Java' },

{ course\_id: 'CS 248', course\_name: 'Discrete Mathematics' }

]

---

\* Lookup by CourseId 6.2\$

[

{ course\_id: 'CS 602', course\_name: 'Server-Side Web Development' },

{

course\_id: 'CS 622',

course\_name: 'Advanced Programming Techniques'

},

{

course\_id: 'CS 632',

course\_name: 'Information Technology Project Management'

},

{ course\_id: 'CS 662', course\_name: 'Computer Language Theory' },

{

course\_id: 'CS 682',

course\_name: 'Information Systems Analysis and Design'

}

]

---

\* Lookup by CourseId CS 777

[ { course\_id: 'CS 777', course\_name: 'Big Data Analytics' } ]

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\* Lookup by CourseId 00\$

```
[
  {
    course_id: 'CS 200',
    course_name: 'Introduction to Computer Information Systems'
  },
  {
    course_id: 'CS 300',
    course_name: 'Introduction to Software Development'
  }
]
```

-----  
\* Lookup by CourseName Web

```
[
  {
    course_id: 'CS 401',
    course_name: 'Introduction to Web Application Development'
  },
  { course_id: 'CS 601', course_name: 'Web Application Development' },
  { course_id: 'CS 602', course_name: 'Server-Side Web Development' },
  {
    course_id: 'CS 688',
    course_name: 'Web Mining and Graph Analytics'
  }
]
```

\* Lookup by CourseName Cryptography

```
[  
  { course_id: 'CS 789', course_name: 'Cryptography' },  
  { course_id: 'CS 799', course_name: 'Advanced Cryptography' }  
]
```

-----

\* Lookup by CourseName Computer

```
[  
  {  
    course_id: 'CS 101',  
    course_name: 'Computers and Their Applications'  
  },  
  {  
    course_id: 'CS 200',  
    course_name: 'Introduction to Computer Information Systems'  
  },  
  { course_id: 'CS 472', course_name: 'Computer Architecture' },  
  {  
    course_id: 'CS 506',  
    course_name: 'Internship in Computer Science'  
  },  
  { course_id: 'CS 532', course_name: 'Computer Graphics' },  
  { course_id: 'CS 535', course_name: 'Computer Networks' },  
  { course_id: 'CS 662', course_name: 'Computer Language Theory' },  
  { course_id: 'CS 790', course_name: 'Computer Vision in AI' }  
]
```

---

\* A Random Course

```
{  
  course_id: 'CS 200',  
  course_name: 'Introduction to Computer Information Systems'  
}
```

---

\* A Random Course

```
{ course_id: 'CS 599', course_name: 'Biometrics' }
```

---

\* A Random Course

```
{ course_id: 'CS 601', course_name: 'Web Application Development' }
```

---

\* A Random Course

```
{ course_id: 'CS 472', course_name: 'Computer Architecture' }
```

## Output part 2

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→ [CS602\\_HW1\\_Ramirez\\_Pedro](#) node part2\_client.js

Connected to server

Enter Command: lookupByCourseId,CS 111

...Received []

Enter Command: lookupByCourseId,CS 602

...Received [

```
{
  "course_id": "CS 602",
  "course_name": "Server-Side Web Development"
}
]
```

Enter Command: lookupByCourseId,^CS 2

...Received [

```
{
  "course_id": "CS 200",
  "course_name": "Introduction to Computer Information Systems"
},
{
  "course_id": "CS 201",
  "course_name": "Introduction to Programming"
},
{
  "course_id": "CS 231",
  "course_name": "Programming with C++"
},
{
  "course_id": "CS 232",
  "course_name": "Programming with Java"
},
{
  "course_id": "CS 248",
  "course_name": "Discrete Mathematics"
}
]
```

Enter Command: lookupByCourseId,6.2\$

...Received [

```
{
  "course_id": "CS 602",
  "course_name": "Server-Side Web Development"
},
{
  "course_id": "CS 622",
  "course_name": "Advanced Programming Techniques"
},
{
  "course_id": "CS 632",
  "course_name": "Information Technology Project Management"
},
{
  "course_id": "CS 662",
  "course_name": "Computer Language Theory"
},
{
  "course_id": "CS 682",
  "course_name": "Information Systems Analysis and Design"
}
]
```

Enter Command: lookupByCourseName,Web

...Received [

```
{
  "course_id": "CS 401",
  "course_name": "Introduction to Web Application Development"
},
{
```

```
"course_id": "CS 601",  
"course_name": "Web Application Development"  
},  
{  
  "course_id": "CS 602",  
  "course_name": "Server-Side Web Development"  
},  
{  
  "course_id": "CS 688",  
  "course_name": "Web Mining and Graph Analytics"  
}  
]
```

Enter Command: getRandomCourse

```
...Received {  
  "course_id": "CS 682",  
  "course_name": "Information Systems Analysis and Design"  
}
```



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Two extra new cases for each function

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→ [CS602\\_HW1\\_Ramirez\\_Pedro](#) node part2\_client.js

Connected to server

Enter Command: lookupByCourseId, 777

...Received [

```
{  
  "course_id": "CS 777",  
  "course_name": "Big Data Analytics"  
}  
]
```

Enter Command: lookupByCourseId, 00\$

...Received [

```
{  
  "course_id": "CS 200",  
  "course_name": "Introduction to Computer Information Systems"  
},  
{  
  "course_id": "CS 300",  
  "course_name": "Introduction to Software Development"  
}  
]
```

Enter Command: lookupByCourseName, Cryptography

...Received [

```
{  
  "course_id": "CS 789",
```

```
    "course_name": "Cryptography"
  },
  {
    "course_id": "CS 799",
    "course_name": "Advanced Cryptography"
  }
]
```

Enter Command: lookupByCourseName, Computer

...Received [

```
{
  "course_id": "CS 101",
  "course_name": "Computers and Their Applications"
},
{
  "course_id": "CS 200",
  "course_name": "Introduction to Computer Information Systems"
},
{
  "course_id": "CS 472",
  "course_name": "Computer Architecture"
},
{
  "course_id": "CS 506",
  "course_name": "Internship in Computer Science"
},
{
  "course_id": "CS 532",
  "course_name": "Computer Graphics"
},
{
```

```
"course_id": "CS 535",  
  "course_name": "Computer Networks"  
},  
{  
  "course_id": "CS 662",  
  "course_name": "Computer Language Theory"  
},  
{  
  "course_id": "CS 790",  
  "course_name": "Computer Vision in AI"  
}  
]
```

Enter Command: getRandomCourse

```
...Received {  
  "course_id": "CS 787",  
  "course_name": "Adversarial Machine Learning"  
}
```

Enter Command: getRandomCourse

```
...Received {  
  "course_id": "CS 775",  
  "course_name": "Advanced Networking"  
}
```