

# **Project Data Structures**

## **Employee record management system**

CCCS 224: Data structures

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- Empty Record Check:

```

-----
**Welcome to Employee Record Mangement System**
-----
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
2
Enter the ID of employee to delete the record:
2115118
There is not records
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
3
Enter the ID of employee you want to search for:
2115118
There is no records

```

```

Output
ct (run) #4 x project (run) #5 x project (run) #6 x project (run) #7 x project (run) #8 x project (run) #9 x project (run) #10 x p
2115118
There is not records
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
5
Enter the ID of the employee to increase his Salary regarding to his working hours:
2115118
There is no records
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
6
There is not records
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit

```

- Create Record: Insert 11 employee record

```

Output x
ect (run) #3 x project (run) #4 x project (run) #5 x project (run) #6 x project (run) #7 x project (run) #8
run:
-----
**Welcome to Employee Record Mangement System**
-----
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
1
Enter the name of employee:
abrar
Enter the ID of employee:
2115118
Enter the first Day of employee:
1-1-2023
Enter the Phone Number of employee:
0562418665
Enter the Address of employee:
jeddah alyaqoot
Enter the Workehours of the employee in one month:
36
Enter the Salary of the employee:
4000

```

```

project > main > while (TF) > switch (Choice) > case 1: >
Output x
ect (run) #3 x project (run) #4 x project (run) #5 x project (run) #6 x project (run) #7 x project (run) #8
Enter the Salary of the employee:
4000
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
1
Enter the name of employee:
sara
Enter the ID of employee:
2014118
Enter the first Day of employee:
2-2-2023
Enter the Phone Number of employee:
0562418773
Enter the Address of employee:
jeddah alsafa
Enter the Workehours of the employee in one month:
40
Enter the Salary of the employee:
4500

```

```

project > main > while (TF) > switch (Choice) > case 1: >
Output x
ect (run) #3 x project (run) #4 x project (run) #5 x project (run) #6 x project (run) #7 x project (run) #8
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
1
Enter the name of employee:
rahaf
Enter the ID of employee:
2447663
Enter the first Day of employee:
1-2-2023
Enter the Phone Number of employee:
054211400
Enter the Address of employee:
jeddah alnahdah
Enter the Workehours of the employee in one month:
32
Enter the Salary of the employee:
4600

```

```

Source History | project > main > while (TF) > switch (Choice) > case 1: >
Output x
ect (run) #3 x project (run) #4 x project (run) #5 x project (run) #6 x project (run) #7 x project (run) #8
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
1
Enter the name of employee:
azhar
Enter the ID of employee:
21365837
Enter the first Day of employee:
1-1-2023
Enter the Phone Number of employee:
0564378476
Enter the Address of employee:
jeddah abhur
Enter the Workehours of the employee in one month:
36
Enter the Salary of the employee:
5000

```

```

project > main > while (TF) > switch (Choice) > case 1: >
Output x
ect (run) #3 x project (run) #4 x project (run) #5 x project (run) #6 x project (run) #7
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
1
Enter the name of employee:
asmaa
Enter the ID of employee:
1226534
Enter the first Day of employee:
2-3-2023
Enter the Phone Number of employee:
05644536532
Enter the Address of employee:
jeddah almarwa
Enter the Workhours of the employee in one month:
40
Enter the Salary of the employee:
6000

```

```

project > main > while (TF) > switch (Choice) > case 1: >
Output x
ect (run) #3 x project (run) #4 x project (run) #5 x project (run) #6 x project (run) #7
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
1
Enter the name of employee:
ahmed
Enter the ID of employee:
1117776
Enter the first Day of employee:
2-2-2023
Enter the Phone Number of employee:
0566001016
Enter the Address of employee:
jeddah albalad
Enter the Workhours of the employee in one month:
45
Enter the Salary of the employee:
5000

```

```

Source History
project > main > while (TF) > switch (Choice) > case 1: >
Output x
ect (run) #3 x project (run) #4 x project (run) #5 x project (run) #6 x project (run) #7
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
1
Enter the name of employee:
jawad
Enter the ID of employee:
4448887
Enter the first Day of employee:
30-1-2023
Enter the Phone Number of employee:
05624273685
Enter the Address of employee:
jeddah alsafa
Enter the Workhours of the employee in one month:
39
Enter the Salary of the employee:
4000

```

```

Output x
ect (run) #3 x project (run) #4 x project (run) #5 x project (run) #6 x project (run) #7
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
1
Enter the name of employee:
tawheed
Enter the ID of employee:
7652343
Enter the first Day of employee:
1-3-2023
Enter the Phone Number of employee:
0574338876
Enter the Address of employee:
jeddah alnihadah
Enter the Workhours of the employee in one month:
35
Enter the Salary of the employee:
2500

```

```

project > main > while (TF) > switch (Choice) > case 1: >
Output x
ect (run) #3 x project (run) #4 x project (run) #5 x project (run) #6 x project (run) #7
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
1
Enter the name of employee:
joud
Enter the ID of employee:
2776335
Enter the first Day of employee:
2-3-2023
Enter the Phone Number of employee:
0567394887
Enter the Address of employee:
jeddah alyasmeen
Enter the Workhours of the employee in one month:
41
Enter the Salary of the employee:
5500

```

```

project > main > while (TF) > switch (Choice) > case 1: >
Output x
ect (run) #3 x project (run) #4 x project (run) #5 x project (run) #6 x project (run) #7
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
1
Enter the name of employee:
nawaf
Enter the ID of employee:
2115118
This ID is already existed, please enter another ID:
2115113
Enter the first Day of employee:
2-2-2022
Enter the Phone Number of employee:
0561908664
Enter the Address of employee:
makkah alnaseem
Enter the Workhours of the employee in one month:
41
Enter the Salary of the employee:
6000

```

- Show Record:

```

project > main > while (TF) > switch (Choice) > case 1:
Output X
ect (run) #3 x project (run) #4 x project (run) #5 x project (run) #6 x project (run) #7 x project (run) #8 x project (run) #9 x project (run) #10 x project (run) #11 x project (run) #12 x project (run) #13
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
6

1-Name:ahmed ID:1117776 First Day:2-2-2023 Phone Number:0566001016 Address:jeddah albalad Work Hours:45 Salary:5000
2-Name:asmaa ID:1226534 First Day:2-3-2023 Phone Number:05644536532 Address:jeddah almarwa Work Hours:40 Salary:6000
3-Name:sara ID:2014118 First Day:2-2-2023 Phone Number:0562418773 Address:jeddah alsafa Work Hours:40 Salary:4500
4-Name:nawaf ID:2115113 First Day:2-2-2022 Phone Number:0561908664 Address:makkah alnaseem Work Hours:41 Salary:6000
5-Name:abrar ID:2115118 First Day:1-1-2023 Phone Number:0562418665 Address:jeddah alyaqoot Work Hours:36 Salary:4000
6-Name:joory ID:2334556 First Day:1-1-2022 Phone Number:0567463889 Address:jeddah alnaseem Work Hours:32 Salary:4000
7-Name:rahaf ID:2447663 First Day:1-2-2023 Phone Number:054211400 Address:jeddah alnahdah Work Hours:32 Salary:4600
8-Name:joud ID:2776335 First Day:2-3-2023 Phone Number:0567394887 Address:jeddah alyasmeen Work Hours:41 Salary:5500
9-Name:jawad ID:4448887 First Day:30-1-2023 Phone Number:05624273685 Address:jeddah alsafa Work Hours:39 Salary:4000
10-Name:tawheed ID:7652343 First Day:1-3-2023 Phone Number:0574338876 Address:jeddah alnahdah Work Hours:35 Salary:2500
11-Name:azhar ID:21365837 First Day:1-1-2023 Phone Number:0564378476 Address:jeddah abhur Work Hours:36 Salary:5000

```

- Smart Search Record:

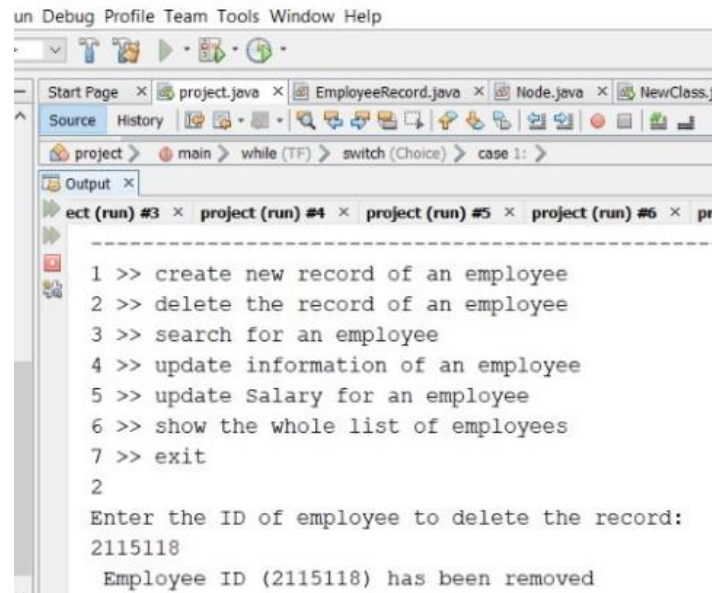
```

1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
3
Enter the ID of employee you want to search for:
2115113
Name: nawaf
ID: 2115113
firs day: 2-2-2022
Phone number: 0561908664
Address: makkah alnaseem
Workehoure: 41
Salaey: 6000

```



- Delete Record:

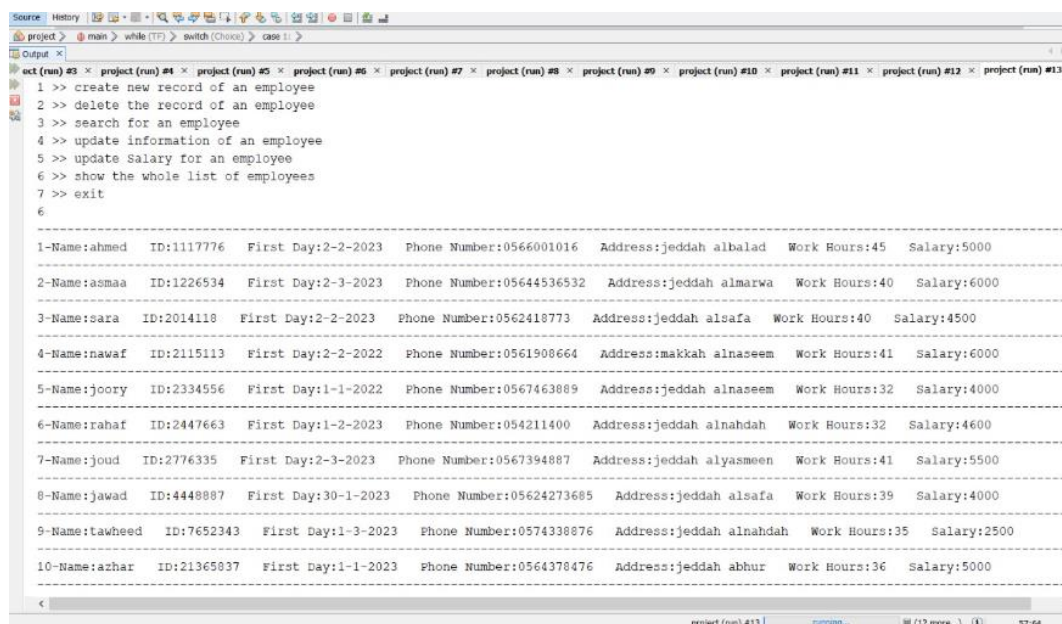


```

un Debug Profile Team Tools Window Help
Start Page x project.java x EmployeeRecord.java x Node.java x NewClass.j
Source History
project > main > while (TF) > switch (Choice) > case 1: >
Output x
ect (run) #3 x project (run) #4 x project (run) #5 x project (run) #6 x pr
-----
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
2
Enter the ID of employee to delete the record:
2115118
Employee ID (2115118) has been removed

```

- Delete Record: Show record after delete



```

Source History
project > main > while (TF) > switch (Choice) > case 1: >
Output x
ect (run) #3 x project (run) #4 x project (run) #5 x project (run) #6 x project (run) #7 x project (run) #8 x project (run) #9 x project (run) #10 x project (run) #11 x project (run) #12 x project (run) #13
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
6
-----
1-Name:ahmed ID:1117776 First Day:2-2-2023 Phone Number:0566001016 Address:jeddah albalad Work Hours:45 Salary:5000
2-Name:asmaa ID:1226534 First Day:2-3-2023 Phone Number:05644536532 Address:jeddah almarwa Work Hours:40 Salary:6000
3-Name:sara ID:2014118 First Day:2-2-2023 Phone Number:0562418773 Address:jeddah alsafa Work Hours:40 Salary:4500
4-Name:nawaf ID:2115113 First Day:2-2-2022 Phone Number:0561908664 Address:makkah alnaseem Work Hours:41 Salary:6000
5-Name:joory ID:2334556 First Day:1-1-2022 Phone Number:0567463889 Address:jeddah alnaseem Work Hours:32 Salary:4000
6-Name:rahaf ID:2447663 First Day:1-2-2023 Phone Number:054211400 Address:jeddah alnahdah Work Hours:32 Salary:4600
7-Name:joud ID:2776335 First Day:2-3-2023 Phone Number:0567394887 Address:jeddah alyasmeen Work Hours:41 Salary:5500
8-Name:jawad ID:4448887 First Day:30-1-2023 Phone Number:05624273685 Address:jeddah alsafa Work Hours:39 Salary:4000
9-Name:tawheed ID:7652343 First Day:1-3-2023 Phone Number:0574338876 Address:jeddah alnahdah Work Hours:35 Salary:2500
10-Name:azhar ID:21365837 First Day:1-1-2023 Phone Number:0564378476 Address:jeddah abhur Work Hours:36 Salary:5000
-----
project (run) #13 | running... | (12 more...) | 57:04

```

- Update information:

```

1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
4
Enter the ID of the employee who you want to update his information:
21365837
Choose what you want to Accsses:
#1 >> Change Phone Number:
#2 >> Change Address:
#3 >> Change Worke Houre:
#4 >> Change Salary:
4
Enter new Salary:
3000

```

- Update information: Show record after update

```

Output x
ect (run) #3 x project (run) #4 x project (run) #5 x project (run) #6 x project (run) #7 x project (run) #8 x project (run) #9 x project (run) #10 x project (run) #11 x project (run) #12 x project (run) #13
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
6
-----
1-Name:ahmed ID:1117776 First Day:2-2-2023 Phone Number:0566001016 Address:jeddah albalad Work Hours:45 Salary:5000
-----
2-Name:asmaa ID:1226534 First Day:2-3-2023 Phone Number:05644536532 Address:jeddah almarwa Work Hours:40 Salary:6000
-----
3-Name:sara ID:2014110 First Day:2-2-2023 Phone Number:0562410773 Address:jeddah alsafa Work Hours:40 Salary:4500
-----
4-Name:nawaf ID:2115113 First Day:2-2-2022 Phone Number:0561908664 Address:makkah alnaseem Work Hours:41 Salary:6000
-----
5-Name:joory ID:2334556 First Day:1-1-2022 Phone Number:0567463889 Address:jeddah alnaseem Work Hours:32 Salary:4000
-----
6-Name:rahaf ID:2447663 First Day:1-2-2023 Phone Number:054211400 Address:jeddah alnahdah Work Hours:32 Salary:4600
-----
7-Name:joud ID:2776335 First Day:2-3-2023 Phone Number:0567394887 Address:jeddah alyasmeen Work Hours:41 Salary:5500
-----
8-Name:jawad ID:4448887 First Day:30-1-2023 Phone Number:05624273685 Address:jeddah alsafa Work Hours:39 Salary:4000
-----
9-Name:tawheed ID:7652343 First Day:1-3-2023 Phone Number:0574338876 Address:jeddah alnahdah Work Hours:35 Salary:2500
-----
10-Name:azhar ID:21365837 First Day:1-1-2023 Phone Number:0564378476 Address:jeddah abhur Work Hours:36 Salary:3000
-----

```

- Update Salary: Rahaf employee

```

ct (run) #1 x project (run) #5 x project (run) #6 x project (run) #7 x project (run) #8 x project (run) #9 x project (run) #10 x
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
5
Enter the ID of the employee to increase his Salary regarding to his working hours:
2447663
Success! The new salary is: 4600 SAR

```

- Update Salary: Show record after update

```

1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
6

```

1-Name:ahmed	ID:1117776	First Day:2-2-2023	Phone Number:0566001016	Address:jeddah albalad	Work Hours:45	Salary:5000
2-Name:asmaa	ID:1226534	First Day:2-3-2023	Phone Number:0564436532	Address:jeddah almarwa	Work Hours:40	Salary:6000
3-Name:sara	ID:2014118	First Day:2-2-2023	Phone Number:0562418773	Address:jeddah alsafa	Work Hours:40	Salary:4500
4-Name:nawaf	ID:2115113	First Day:2-2-2022	Phone Number:0561908664	Address:makkah alnaseem	Work Hours:41	Salary:6000
5-Name:joory	ID:2334556	First Day:1-1-2022	Phone Number:0567463889	Address:jeddah alnaseem	Work Hours:32	Salary:4000
6-Name:rahaf	ID:2447663	First Day:1-2-2023	Phone Number:054111400	Address:jeddah alnahdah	Work Hours:32	Salary:4600
7-Name:joud	ID:2776335	First Day:2-3-2023	Phone Number:0567394887	Address:jeddah alyasmeen	Work Hours:41	Salary:5500
8-Name:jawad	ID:4448887	First Day:30-1-2023	Phone Number:05624273685	Address:jeddah alsafa	Work Hours:39	Salary:4000
9-Name:tawheed	ID:7652343	First Day:1-3-2023	Phone Number:0574338876	Address:jeddah alnahdah	Work Hours:35	Salary:2500
10-Name:azhar	ID:21365037	First Day:1-1-2023	Phone Number:0564378476	Address:jeddah abhur	Work Hours:36	Salary:5000



- Update Salary: Joud employee

```

ct (run) #4 x project (run) #5 x project (run) #6 x project (run) #7 x project (run) #8 x project (run) #9 x project (run) #10 x proj
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
5
Enter the ID of the employee to increase his Salary regarding to his working hours:
2776335
Success! The new salary is: 6490 SAR

```

- Update Salary: Show record after update

```

1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
6

```

1-Name:ahmed	ID:1117776	First Day:2-2-2023	Phone Number:0566001016	Address:jeddah albalad	Work Hours:45	Salary:5000
2-Name:asmaa	ID:1226534	First Day:2-3-2023	Phone Number:0564436532	Address:jeddah almarwa	Work Hours:40	Salary:6000
3-Name:sara	ID:2014118	First Day:2-2-2023	Phone Number:0562418773	Address:jeddah alsafa	Work Hours:40	Salary:4500
4-Name:nawaf	ID:2115113	First Day:2-2-2022	Phone Number:0561908664	Address:makkah alnaseem	Work Hours:41	Salary:6000
5-Name:joory	ID:2334556	First Day:1-1-2022	Phone Number:0567463889	Address:jeddah alnaseem	Work Hours:32	Salary:4000
6-Name:rahaf	ID:2447663	First Day:1-2-2023	Phone Number:05411400	Address:jeddah alnahdah	Work Hours:32	Salary:4600
7-Name:joud	ID:2776335	First Day:2-3-2023	Phone Number:0567394887	Address:jeddah alyasmeen	Work Hours:41	Salary:6490
8-Name:jawad	ID:4448887	First Day:30-1-2023	Phone Number:05624273685	Address:jeddah alsafa	Work Hours:39	Salary:4000
9-Name:tawheed	ID:7652343	First Day:1-3-2023	Phone Number:0574338876	Address:jeddah alnahdah	Work Hours:35	Salary:2500
10-Name:azhar	ID:21365837	First Day:1-1-2023	Phone Number:0564378476	Address:jeddah abhur	Work Hours:36	Salary:5000

- Exit:

```
1 >> create new record of an employee
2 >> delete the record of an employee
3 >> search for an employee
4 >> update information of an employee
5 >> update Salary for an employee
6 >> show the whole list of employees
7 >> exit
7
BUILD SUCCESSFUL (total time: 26 minutes 57 seconds)
```

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