

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik24_Set_HashSet_Linked\Pr03.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr03

Project Commit Pull Requests Bookmarks Structure

Pr08.java < CollectionsSetMethods.java < Pr01.java < Pr02.java < Pratik24_Set_HashSet_Linked\Pr03.java

Run: Pr03

Notifications Run

```
package JavaKonusalSorular.Pratik24_Set_HashSet_Linked;

import java.util.LinkedList;

public class Pr03 {

    public static void main(String[] args) {

        LinkedList<String> ll1 = new LinkedList();

        ll1.add("A");
        ll1.add("B");
        ll1.add("C");
        System.out.println(ll1); // [A, B, C]

        ll1.remove();
        System.out.println(ll1); // [B, C]

        ll1.remove( index 1); // indexteki elemani siler...
        System.out.println(ll1); // [B]

        ll1.remove( < "B");
        System.out.println(ll1); // []
    }
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe " [A, B, C] [B, C] [B] []

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago)

28:2 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik24_Set_HashSet_Linked\Pr04.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr04 > main

Project Commit Pull Requests Bookmarks Structure

SetMethods.java x Pr01.java x Pr02.java x Pr03.java x Pratik24_Set_HashSet_Linked\Pr04.java x Run: Pr04 x

1 package JavaKonusalSorular.Pratik24_Set_HashSet_Linked;
2 import ...
3 public class Pr04 {
4 public static void main(String[] args) {
5 LinkedList<String> ll1 = new LinkedList<>(Arrays.asList("erdem", "mehmet", "samet", "said", "yagmur"));
6 System.out.println(ll1); // [erdem, mehmet, samet, said, yagmur]
7
8 ll1.add("merve"); // --> add yapan node LinkedList'im en sonuna ekler..
9 System.out.println(ll1); // [erdem, mehmet, samet, said, yagmur, merve]
10
11 ll1.add(index 2, element "faruk eczanesi"); // --> 2. index'e node eklenir.
12 System.out.println(ll1); // [erdem, mehmet, faruk eczanesi, samet, said, yagmur, merve]
13
14 LinkedList<String> ll2 = new LinkedList<>(Arrays.asList("X", "Y"));
15
16 ll1.addAll(ll2); // ll1 sonuna ll2 node larini ekler
17 System.out.println(ll1); // [erdem, mehmet, faruk eczanesi, samet, said, yagmur, merve, X, Y]
18
19 ll1.addFirst(e: "gayet"); // -->ilk index'e node ekler
20 System.out.println(ll1); // [gayet, erdem, mehmet, faruk eczanesi, samet, said, yagmur, merve, X, Y]
21
22 ll1.addLast(e: "basarili"); // -->son index'e node ekler
23 System.out.println(ll1);
24 // [gayet, erdem, mehmet, faruk eczanesi, samet, said, yagmur, merve, X, Y, basarili]
25
26 ll1.addAll(index 3, ll2); // -->3. index'e collection obj ll2 ekler
27 System.out.println(ll1);
28 // [gayet, erdem, mehmet, X, Y, faruk eczanesi, samet, said, yagmur, merve, X, Y, basarili]
29
30 ll1.remove(); // ilk node siler ve silinen node'u return eder
31 System.out.println(ll1);
32 // [erdem, mehmet, X, Y, faruk eczanesi, samet, said, yagmur, merve, X, Y, basarili]
33
34 ll1.removeFirst(); // ilk node daha hızlı siler ve silinen node'u return eder
35 System.out.println(ll1); // [mehmet, X, Y, faruk eczanesi, samet, said, yagmur, merve, X, Y, basarili]
36 }

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8 -jar C:\Users\HP\IdeaProjects\Java2021allfiles\out\artifacts\Pratik24_Set_HashSet_Linked\Pr04.jar
[erdem, mehmet, samet, said, yagmur]
[erdem, mehmet, samet, said, yagmur, merve]
[erdem, mehmet, faruk eczanesi, samet, said, yagmur, merve]
[erdem, mehmet, faruk eczanesi, samet, said, yagmur, merve, X, Y]
[gayet, erdem, mehmet, faruk eczanesi, samet, said, yagmur, merve, X, Y]
[gayet, erdem, mehmet, faruk eczanesi, samet, said, yagmur, merve, X, Y, basarili]
[gayet, erdem, mehmet, X, Y, faruk eczanesi, samet, said, yagmur, merve, X, Y, basarili]
[erdem, mehmet, X, Y, faruk eczanesi, samet, said, yagmur, merve, X, Y, basarili]
[mehmet, X, Y, faruk eczanesi, samet, said, yagmur, merve, X, Y, basarili]
[mehmet, X, Y, samet, said, yagmur, merve, X, Y, basarili]
[mehmet, samet, said, yagmur, merve, X, Y, basarili]
[mehmet, samet, said, basarili, yagmur, merve, X, Y]
[1, 2, 4, 5, 6]
[1, 2, 4, 5]
[mehmet, samet, said, basarili, yagmur, merve]
[X, Y]
yagmur

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (3 minutes ago) 19:7 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik24_Set_HashSet_Linked\Pr04.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr04 > main

Project Commit Pull Requests Bookmarks Structure

Methods.java × Pr01.java × Pr02.java × Pr03.java × Pratik24_Set_HashSet_Linked\Pr04.java ×

Run: Pr04 ×

```
37
38     ll1.remove( o: "faruk eczanesi"); // faruk eczanesi node'nu siler return true
39     System.out.println(ll1); // [mehmet, X, Y, samet, said, yagmur, merve, X, Y, basarili]
40
41     ll1.remove( index: 2); // 2. index'deki nodu'siler node'u return eder
42     System.out.println(ll1); // [mehmet, X, samet, said, yagmur, merve, X, Y, basarili]
43
44     ll1.removeFirstOccurrence( o: "X"); // ilk gorulen node silinir
45     System.out.println(ll1); // [mehmet, X, samet, said, yagmur, merve, X, Y, basarili]
46
47     ll1.add( index: 3, element: "basarili"); // [mehmet, X, samet, said, yagmur, merve, X, Y, basarili]
48     ll1.removeLastOccurrence( o: "basarili"); // son gorulen node silinir
49     System.out.println(ll1); // [mehmet, samet, basarili, said, yagmur, merve, X, Y]
50
51     LinkedList<Integer> ll3 = new LinkedList<>(Arrays.asList(1, 2, 3, 4, 5, 6));
52     ll3.remove( index: 2); // 2 node'u degil 2. index'teki 3 node'u siler
53     System.out.println(ll3); // [1, 2, 4, 5]
54
55     ll3.remove(ll3.indexOf(6));
56     System.out.println(ll3); // [1, 2, 4, 5]
57
58     ll1.removeAll(ll2); // ll1 den ll2 obj siler
59     System.out.println(ll1); // [mehmet, samet, said, basarili, yagmur, merve]
60     System.out.println(ll2); // [X, Y]
61
62     // ll3.remove(33); olmayan bir index exception verir...
63     // System.out.println(ll3); // IndexOutOfBoundsException fırlatır
64
65     System.out.println(ll1.get(4)); // yagmur --> get(i) indexteki elemani return eder
66
67 }
```

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8 -classpath "C:\Users\HP\IdeaProjects\Java2021allfiles\out\production\Java2021allfiles;C:\Users\HP\IdeaProjects\Java2021allfiles\src" Pratik24_Set_HashSet_Linked.Pr04

[erdem, mehmet, samet, said, yagmur]
[erdem, mehmet, samet, said, yagmur, merve]
[erdem, mehmet, faruk eczanesi, samet, said, yagmur, merve]
[erdem, mehmet, faruk eczanesi, samet, said, yagmur, merve, X, Y]
[gayet, erdem, mehmet, faruk eczanesi, samet, said, yagmur, merve, X, Y]
[gayet, erdem, mehmet, faruk eczanesi, samet, said, yagmur, merve, X, Y, basarili]
[gayet, erdem, mehmet, X, Y, faruk eczanesi, samet, said, yagmur, merve, X, Y, basarili]
[erdem, mehmet, X, Y, faruk eczanesi, samet, said, yagmur, merve, X, Y, basarili]
[mehmet, X, Y, faruk eczanesi, samet, said, yagmur, merve, X, Y, basarili]
[mehmet, X, samet, said, yagmur, merve, X, Y, basarili]
[mehmet, samet, said, yagmur, merve, X, Y, basarili]
[mehmet, samet, said, basarili, yagmur, merve, X, Y]
[1, 2, 4, 5]
[1, 2, 4, 5]
[mehmet, samet, said, basarili, yagmur, merve]
[X, Y]
yagmur

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (4 minutes ago)

19:7 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik24_Set_HashSet_Linked\Pr05.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr05 > tekrarlariSil

Project Commit Pull Requests Bookmarks Structure

Run: Pr05

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\ Set olarak method icinde : [2, 3, 4, 5, 6, 7, 8]

Process finished with exit code 0

```
1 package JavaKonusalSorular.Pratik24_Set_HashSet_Linked;
2 import ...
3 public class Pr05 {
4
5     public static void main(String[] args) {
6         // Verilen bir Array deki tekrarlı elemanları silip
7         // Unique elemanlardan oluşan bir Array e çeviren bir metod yazınız
8
9         int arr[] = { 2, 3, 4, 3, 5, 3, 6, 4, 7, 4, 8, 5 };
10
11        int tekrrarsizArray[] = tekrarlariSil(arr);
12
13    }
14
15    public static int[] tekrarlariSil(int[] arr) {
16        @
17        Collections
18        Pr01
19        Pr02
20        Pr03
21        Pr04
22        Pr05
23        Pr06
24        Pr07
25        Pr08
26        Pr09
27        Pr10
28        Pr11
29        Pr12
30        Pr13
31        Pr14
32        Pr15
33        Pr16
34    }
35}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago)

5:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik24_Set_HashSet_Linked\Pr06.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr06 > main

Project Commit Pull Requests Bookmarks Structure

Pr03.java Pr04.java Pr05.java Pratik24_Set_HashSet_Linked\Pr06.java Run: Pr06

public class Pr06 {
 public static void main(String[] args) {
 Set<String> set1 = new HashSet<>();
 set1.add("F");
 set1.add("A");
 set1.add("B");
 set1.add("A");
 set1.add("B");
 set1.add("C");
 set1.add("B");
 set1.add("A");
 set1.add("Y");

 System.out.println(set1); // [A, B, C, F, Y]

 set1.clear();
 System.out.println(set1); // []

 set1.add("F");
 set1.add("A");
 set1.add("B");
 set1.add("A");

 System.out.println(set1); // [A, B, F]

 Set<String> set2 = new HashSet<>();
 set2.add("B");
 set2.add("F");
 set2.add("A");

 System.out.println(set2); // [A, B, F]
 }
}

Run: C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\Java\VisualVM\visualvm.jar" -Djava.awt.headless=true -Dfile.encoding=UTF-8 -jar "C:\Users\HP\OneDrive\Documents\JavaKonusalSorular\JavaKonusalSorular\Java2021allfiles\Pratik24_Set_HashSet_Linked\Pr06.jar"
[A, B, C, F, Y]
[]
[A, B, F]
[A, B, F]
true
true
false
[]
[A, B, F]
[A, B, F]
[A, B, F]
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 6 sec, 257 ms (moments ago) 28:23 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik24_Set_HashSet_Linked\Pr06.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr06

Project Commit Pull Requests Bookmarks Structure

Pr03.java Pr04.java Pr05.java Pratik24_Set_HashSet_Linked\Pr06.java Run: Pr06

Pratik12_While
Pratik13_DoWhile
Pratik14_Array
Pratik15_Array
Pratik16_Const
Pratik17_Encap
Pratik18_Inheri
Pratik19_OVERR
Pratik20_Excep
Pratik21_Abstr
Pratik22_Interf
Pratik23_Iterat
Pratik24_Set_Hash
Collections
Pr01
Pr02
Pr03
Pr04
Pr05
Pr06
Pr07
Pr08
Pr09
Pr10
Pr11
Pr12
Pr13
Pr14
Pr15
Pr16

```
System.out.println(set2); // [A, B, F]
System.out.println(set1.containsAll(set2)); // true
System.out.println(set1.equals(set2)); // true
set1.removeAll(set2);
System.out.println(set1.removeAll(set2));
// false.. 1 tane eslesen olayd true dondururdu..
System.out.println(set1); // []
System.out.println(set2); // [A, B, F]

set1.add("F");
set1.add("A");
set1.add("B");
set1.add("A");
set1.add("D");

set1.retainAll(set2);
// set1 de colisir set2 deki elemanlari tutar ve set2 de olmayanlari siler...
System.out.println(set1); // [A, B, F]
System.out.println(set2); // [A, B, F]
```

Run: C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\Java\VisualVM\visualvm.jar" -jar "C:\Users\HP\OneDrive\Documents\Java2021allfiles\JavaKonusalSorular\Pratik24_Set_HashSet_Linked\Pr06.jar"
[A, B, C, F, Y]
[]
[A, B, F]
[A, B, F]
true
true
false
[]
[A, B, F]
[A, B, F]
[A, B, F]
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 6 sec, 257 ms (a minute ago) 72:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik24_Set_HashSet_Linked\Pr07.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr07 > main

Project Commit Pull Requests Bookmarks Structure

java . Pr04.java Pr05.java Pr06.java Pratik24_Set_HashSet_Linked\Pr07.java Run: Pr07

Pratik12_While Pratik13_DoWhile Pratik14_Array Pratik15_Array Pratik16_Const Pratik17_Encapsulation Pratik18_Inheritance Pratik19_Overriding Pratik20_Exceptions Pratik21_AbstractClass Pratik22_Interface Pratik23_Iterators Pratik24_Set_HashSet_Linked Collections Pr01 Pr02 Pr03 Pr04 Pr05 Pr06 Pr07 Pr08 Pr09 Pr10 Pr11 Pr12 Pr13 Pr14 Pr15 Pr16

```
package JavaKonusalSorular.Pratik24_Set_HashSet_Linked;
import ...;
public class Pr07 {
    public static void main(String[] args) {
        Set<String> set1 = new HashSet<>();
        set1.add("F");
        set1.add("A");
        set1.add("B");
        set1.add("A");
        set1.add("B");
        set1.add("C");
        set1.add("B");
        set1.add("A");
        set1.add("Y");
        System.out.println(set1); // [A, B, C, F, Y]
        // Tekrarlari yazdirmaz...
        set1.add("E");
        set1.add("N");
        System.out.println(set1); // [A, B, C, E, F, Y, N]
        // Sırlama onemli degildir istedigi gibi yazdirır..
        System.out.println(set1.hashCode()); // 504
        // hashCode() methodu tum node larin toplam kodunu verir...
    }
}
```

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\Java\Visual Studio Code\bin\javaagent.jar" -Dfile.encoding=UTF-8 -jar "C:\Users\HP\OneDrive\Documents\JavaKonusalSorular\Java2021allfiles\JavaKonusalSorular.jar" --title=JavaKonusalSorular --width=1000 --height=600

[A, B, C, F, Y]
[A, B, C, E, F, Y, N]
504
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 5 sec, 974 ms (2 minutes ago)

31:70 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik24_Set_HashSet_Linked\Pr08.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr08

Project Commit Pull Requests Bookmarks Structure

Notifications Run

```
public class Pr08 {
    /*
     * Set :
     * 1) unique(benzersiz tek) elemanlardan olusur, Set'lerin icinde bir eleman sadece bir kere kullanilabilir.
     * Nukerer(duplicate) eleman olmaz.
     * 2) Sadece bir null degeri olabılır.(treeSet haric).
     * Java elementleri unique yapmak için HASH ALGORITMASI kullanır.
     * Java her data için hashing teknigini kullanarak bir code üretir.Bu code'u almak için hashCode() methodu kullanılır.
     * Hashing, farklı büyükükteki girdilerden sabit büyükükte bir çıktı oluştururma surecine verilen isimdir.
     * Üniversitelerdeki öğrenci numaraları gibi bir öğrenci ismi sorulduğunda numarasını bulursanız onunla ilgili tüm datalara ulaşılabilir.
     */

    * Set --> HashSet :
    * 1) HashSet, duplicationa(tekrarlı eleman) izin vermez.
    * Eğer bir elemani tekrar HashSet e eklemek isterseniz eski olan silinip, yeni olan üzerine yazılır.
    * 2) Haset'ler Set'ler arasında en hızlı olanıdır. bir algoritmaya göre kayıt eder. değerlerin giriş sirasına dikkat edilmez.
        (LinkedHashSet haric)
    * 3) HashSet "null" object'ini eleman olarak kullanabilir.
    * Ancak birden fazla null değerini bir HashSet e eklemek isterseniz sadece bir tane null değeri olur.

    * LinkedHashset :
    * 1) Tekrarlı eleman kabul etmezler. Elemanları ekleme sırasına(insertion order) göre dizerler.
    * 2) LinkedHashSet, HashSet'den daha yavaş çalışır.
    * 3) LinkedHashSet "null" object'ini eleman olarak kullanabilir.
    * 4) Ekleme ve remove işlemlerinde hızlıdır.

    * TreeSet :
    * 1) TreeSet tekrarlı eleman kabul etmez, cunku Set'dir.
    * 2) Elemanları natural Order'a(String ise alfabetik, sayı ise küçükten büyüğe)göre dizer.
    * 3) TreeSet, setlerin en yavaşasıdır. Bu yüzden TreeSet kullanırken dikkatli olunmalı...
    * 4)AHAN DA TRICK :TreeSet "null" object'ini eleman olarak kullanılamaz.
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 5 sec, 974 ms (2 minutes ago) 6:18 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik24_Set_HashSet_Linked\Pr08.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr08

Project Commit Pull Requests Bookmarks Structure

Pr03.java X Pr04.java X Pr05.java X Pr06.java X Pr07.java X Pratik24_Set_HashSet_Linked\Pr08.java X Run: Pr08 X

38 * 4)AHAN DA TRICK :TreeSet "null" object'ini eleman olarak kullanılamaz.
39
40 * Set Methods :
41 * .add(eleman);-->Set e eleman ekler
42 * .addAll(collection);-->istenen collection in tum elemanlarini ekler
43 * .contains(eleman);-->istenen eleman set te varsa true, yoksa false dondurur.
44 * .containsAll(collection);-->istenen collection in tumu aranan sette var ise true, yoksa false dondurur
45 * .remove(eleman);-->istenen eleman bulursa siler ve true dondurur, bulamazsa false dondurur
46 * .removeAll(collection);-->istenen collection in tum elemanlarini bulursa siler ve true dondurur,
47 bulamazsa false dondurur
48 * .equals(set2);-->istenen set2 ile tum elemanlar aynı ise true, yoksa false dondurur
49 * .retainAll(collection1);-->collection1 nin elemanlarının disindaki tum elemanları siler,
50 silme islemi yaptı ise true, yoksa false dondurur(kesisen ortak elemanları dondurur.)
51 * .clear();-->sett'teki Tum elemanları siler
52 * .isEmpty();-->Sette hic eleman yoksa true, varsa false dondurur
53 * .size();-->set in eleman sayisini verir */
54
55 public static void main(String[] args) {
56 HashSet<String> hs1 =new HashSet<>(Arrays.asList("erdem","furkan","samet","hakan"));
57 hs1.add("halil");
58 System.out.println(hs1); // [furkan, halil, hakan, erdem, samet]
59
60 HashSet<String> hs2 =new HashSet<>(Arrays.asList("basarili","azimli","nasipli"));
61 hs1.addAll(hs2);
62 System.out.println(hs1); // [furkan, halil, azimli, hakan, basarili, erdem, samet, nasipli]
63 System.out.println(hs1.remove(o: "basarili")); // true
64 System.out.println(hs1); // [furkan, halil, azimli, hakan, erdem, samet, nasipli]
65 System.out.println(hs1.size());//7
66 System.out.println(hs1.isEmpty());//false
67 System.out.println(hs1.contains("erdem"));//true
68 }

Run: Pr08 X

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program [furkan, halil, hakan, erdem, samet] [furkan, halil, azimli, hakan, basarili, erdem, samet, nasipli] true [furkan, halil, azimli, hakan, erdem, samet, nasipli] 7 false true

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Type: In word 'bulamazsa'

47:10 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr09.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr09

Project Commit Pull Requests Bookmarks Structure

Pr03.java x Pr04.java x Pr05.java x Pr06.java x Pr07.java x Pr08.java x Pr09.java x

Run: Pr09 x

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Pr
[reha, hakan, haluk, ipek, ahsen]
hurra :[ahsen, hakan, reha, ipek, haluk]
giris sirasi :[reha, hakan, haluk, ipek, ahsen]
alfabetik sira :[ahsen, hakan, haluk, ipek, reha]
Process finished with exit code 0

```
package JavaKonusalSorular.Pratik24_Set_HashSet_Linked;
import ...
public class Pr09 {
    public static void main(String[] args) {
        /* İçinde değerleri olan bir array i arrayList e çevirecek return tipi arrayList
         * olacak bir metod yazınız. {"reha", "hakan", "haluk", "ipek", "ahsen"}
         * main metod altında metod ile gelen listeyi kullanarak HashSet, TreeSet ve
         * linkedHashSet leri doldurun. */

        String arr[] = { "reha", "hakan", "haluk", "ipek", "ahsen" };
        ArrayList<String> list = new ArrayList<>();
        list = cevir(arr);
        System.out.println(list); // [reha, hakan, haluk, ipek, ahsen]

        HashSet<String> hs = new HashSet<>(list);

        LinkedHashSet<String> lhs = new LinkedHashSet<>(list);

        TreeSet<String> ts = new TreeSet<>(list);

        System.out.println("hurra :" + hs); // hurra :[ahsen, hakan, reha, ipek, haluk]
        System.out.println("giris sirasi :" + lhs); // giriş sırası :[reha, hakan, haluk, ipek, ahsen]
        System.out.println("alfabetik sira :" + ts); // alfabetik sıra :[ahsen, hakan, haluk, ipek, reha]
    }

    public static ArrayList<String> cevir(String[] arr) {
        ArrayList<String> ArrList = new ArrayList<>();
        for (String w : arr) {
            ArrList.add(w);
        }

        return ArrList;
    }
}
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 5 sec, 561 ms (a minute ago) 1:56 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr10.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr10

Project Commit Pull Requests Bookmarks Structure

Pr04.java x Pr05.java x Pr06.java x Pr07.java x Pr08.java x Pr09.java x Pr10.java x

Run: Pr10

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Pr treeSet hizi :0
[sedef, oner, oguz, said, levent]
[levent, oguz, oner, said, sedef]
hashSet ile hizi: 1

Process finished with exit code 0

```
package JavaKonusalSorular.Pratik24_Set_HashSet_Linked;
import ...;
public class Pr10 {
    /* Soru: Elemanlari Alfabetik sirada dizen ve tekrrarsiz bir collection elde etmek isterseniz ne kullanırsınız Cevap: TreeSet
     * Soru: Ama TreeSet çok yavaştır. Nasıl bir çözüm bulabilirsin? Cevap: HashSet
     * oluştururum, elemanları HashSet'e eklerim. Sonra HashSet'i TreeSet'e
     * çeviririm böylece tekrrarsız ve alfabetik sirada bir collection'a sahip olmuş olurum. */
    public static void main(String[] args) {
        long start1 = System.currentTimeMillis();
        TreeSet<String> ts1 = new TreeSet<>(Arrays.asList("said", "oguz", "levent", "oner", "sedef"));

        long stop1 = System.currentTimeMillis();
        System.out.println("treeSet hizi :" + (stop1 - start1));

        long start = System.currentTimeMillis();
        HashSet<String> hs = new HashSet<>(Arrays.asList("said", "oguz", "levent", "oner", "sedef"));
        System.out.println(hs); // [sedef, oner, oguz, said, levent]

        TreeSet<String> ts = new TreeSet<>(hs);

        System.out.println(ts); // [levent, oguz, oner, said, sedef]

        long stop = System.currentTimeMillis();
        System.out.println("hashSet ile hizi: " + (stop - start));
    }
}
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 5 sec, 33 ms (7 minutes ago) 15:5 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr11.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr11 > toplaminiAl

Project Commit Pull Requests Bookmarks Structure

Pr05.java x Pr06.java x Pr07.java x Pr08.java x Pr09.java x Pr10.java x Pr11.java x

Run: Pr11 x

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Pr11.jar" 44.69

Process finished with exit code 0

```
package JavaKonusalSorular.Pratik24_Set_HashSet_Linked;
import ...;
public class Pr11 {

    /* Main method altında bir double hashSet oluşturunuz.
    ve bu seti, adı setOlustur ve return tipi hashSet double olan
    ayrı bir metod altında 3.23 , 3.10 , 5.12 , 10.12 , 23.12 değerlerini kullanarak doldurun.
    Adını toplaminiAl koyacağınız ve parametre olarak bir
    Double hashSet kabul edecek ayrı bir method oluşturarak
    hashSetin değerlerinin toplamını alacaksınız.

    ciktisi--> sonuc = 44.69 */

    public static void main(String[] args) {

        HashSet<Double> hs = new HashSet<>();
        double sonuc = toplaminiAl(setOlustur());

        System.out.println(sonuc); //44.69
    }

    public static HashSet<Double> setOlustur() {

        HashSet<Double> hs = new HashSet<>(Arrays.asList(3.23, 3.10, 5.12, 10.12, 23.12));
        return hs;
    }

    public static double toplaminiAl(HashSet<Double> dhs) {
        double toplam = 0;
        for (double d : dhs) {
            toplam += d;
        }
        return toplam;
    }
}
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 34 sec, 81 ms (moments ago)

31:31 CRLF windows-1254 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr12.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr12

Project Commit Pull Requests Bookmarks Structure

Pr06.java < Pr07.java < Pr08.java < Pr09.java < Pr10.java < Pr11.java < Pr12.java

Run: Pr12

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Pr12.jar" [3, 5, 7, 9] [24, 10, 11, 12, 13]

Process finished with exit code 0

```
package JavaKonusalSorular.Pratik24_Set_HashSet_Linked;
import java.util.HashSet;
public class Pr12 {
    /* Main method altında boş bir hashset oluşturunuz.
    parametresi Integer set ve integer array ve adı elementEkle
    olan bir method yazınız (return tipi olmayacağı)
    yine set içindekileri yazdıracak ayrıca bir metod daha yazınız. */
    public static void main(String[] args) {
        HashSet<Integer> hs = new HashSet<>();
        int[] arr = new int[]{10, 11, 12, 13, 24};
        elementEkle(hs, new int[]{3,5,7,9}); //int[]arr=new int[]{3,5,7,9} farklı gösterim
        elementEkle(hs, arr); //int[]arr=new int[]{10, 11, 12, 13, 24}
        yazdir(hs);
    }
    public static void elementEkle(HashSet<Integer> hset, int[] arr) {
        HashSet<Integer> hs = new HashSet<>();
        for (Integer num : arr) {
            hs.add(num);
        }
        System.out.println(hs);
    }
    public static void yazdir(HashSet<Integer> set) {
        for (Integer sayı : set) {
            System.out.println(sayı);
        }
    }
}
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 7 sec, 875 ms (moments ago)

28:1 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr13.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr13 > main

Project Commit Pull Requests Bookmarks Structure

Pr07.java Pr08.java Pr09.java Pr10.java Pr11.java Pr12.java Pr13.java

Run: Pr13

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Pr
arrList1 = [9, 8, 8, 9, 10, 6, 6, 5, 10, 9]
arrList2 = [9, 14, 1, 13, 4]
arrListFark1 = [8, 8, 10, 6, 6, 5, 10]
arrListFark2 = [9, 14, 1, 13, 4]
Fark1 in sıralanmış hali = [5, 6, 6, 8, 8, 10, 10]
Fark2 in sıralanmış hali =[10, 10, 8, 8, 6, 6, 5]
Process finished with exit code 0

```
package JavaKonusalSorular.Pratik24_Set_HashSet_Linked;  
import ...  
public class Pr13 {  
    /* Method:  
       10 ve 5 elemanlı elemanları 0-20 arasında 2 adet ArrayList hazırlayan ve  
       elemanlarını oldığı min, max değerleri arasındaki random sayı ile doldurup  
       sonucunda bir ArrayList return eden bir method yazınız  
    main:  
        1. Yazdığınız Methodu kullanarak bir 10 ve 5 elemanlı  
           elemanları 0-20 arasında 2 adet ArrayList oluşturun  
        2. Bu iki list'in ortak elemanlarını bulunuz  
        3. Bu iki list'in farklı olan elemanlarını bulunuz  
        4. Bu listleri birbirine ekleyip önce küçükten büyüğe sonra ters sıralayınız */  
  
    public static void main(String[] args) {  
        // System.out.println(arrListHazırla(10,5,10)); // metodу burada parantez içinde kullanabiliriz.  
        // değişken ataması yapar.  
  
        // ArrayList<Integer>arrayList1 = new ArrayList<>(arrListHazırla(10,5,10));  
  
        ArrayList<Integer> arrayList1 = new ArrayList<>();  
        arrayList1 = arrListHazırla( size: 10, min: 5, max: 10);  
  
        ArrayList<Integer> arrayList2 = new ArrayList<>();  
        arrayList2 = arrListHazırla( size: 5, min: 0, max: 20);  
  
        System.out.println("arrList1 = " + arrayList1);  
        System.out.println("arrList2 = " + arrayList2);  
  
        // arrayList1.retainAll(arrayList2);//Kesişimi  
        // System.out.println(arrayList1);
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 35:9 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr13.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr13 > getRandom

Project Commit Pull Requests Bookmarks Structure

Pr07.java X Pr08.java X Pr09.java X Pr10.java X Pr11.java X Pr12.java X Pr13.java X

Run: Pr13 X

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Pr
arrList1 = [9, 8, 8, 9, 10, 6, 6, 5, 10, 9]
arrList2 = [9, 14, 1, 13, 4]
arrListFark1 = [8, 8, 10, 6, 6, 5, 10]
arrListFark2 = [9, 14, 1, 13, 4]
Fark1 in sıralanmış hali = [5, 6, 6, 8, 8, 10, 10]
Fark2 in sıralanmış hali =[10, 10, 8, 8, 6, 6, 5]
Process finished with exit code 0

```
Pratik12_Wh 36
Pratik13_Dov 37
Pratik14_Arra 38
Pratik15_Arra 39
Pratik16_Cor 40
Pratik17_Enc 41
Pratik18_Inhe 42
Pratik19_Ove 43
Pratik20_Exc 44
Pratik21_Abs 45
Pratik22_Inte 46
Pratik23_Iter 47
Pratik24_Set_ 48
    > Collection 49
    > Pr01 50
    > Pr02 51
    > Pr03 52
    > Pr04 53
    > Pr05 54
    > Pr06 55
    > Pr07 56
    > Pr08 57
    > Pr09 58
    > Pr10 59
    > Pr11 60
    > Pr12 61
    > Pr13 62 @
    > Pr14 63
    > Pr15 64
    > Pr16 65

ArrayList<Integer> arrayListFark1 = new ArrayList<>();
ArrayList<Integer> arrayListFark2 = new ArrayList<>();

arrayListFark1 = arrayList1;
arrayListFark2 = arrayList2;

arrayListFark1.removeAll(arrayList2); //1 in 2 den farkı
System.out.println("arrListFark1 = " + arrayListFark1);
arrayListFark2.removeAll(arrayList1); //2nin 1 den farkı
System.out.println("arrListFark2 = " + arrayListFark2);

// arrayListFark1.addAll(arrayListFark2); // Farkların birleşimi
// System.out.println("arrListFarkların birleşimi =" + arrayListFark1);

Collections.sort(arrayListFark1); // Farkın sıralanması
System.out.println("Fark1 in sıralanmış hali = " + arrayListFark1);

Collections.reverse(arrayListFark1); // Farkın tersten yazdırılması
System.out.println("Fark2 in sıralanmış hali =" + arrayListFark1);

public static int getRandom(int min, int max) {
    return (int) (min + Math.random() * (max - min + 1));
}

public static ArrayList<Integer> arrListHazirla(int size, int min, int max) {

    ArrayList<Integer> tempArrList = new ArrayList<>();

    for (int i = 0; i < size; i++) {
        tempArrList.add(getRandom(min, max));
    }
    return tempArrList;
}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago) 58:52 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr15.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr15 > main

Project Commit Pull Requests Bookmarks Structure

Pr09.java X Pr10.java X Pr11.java X Pr12.java X Pr13.java X Pr14.java X Pr15.java X

Run: Pr15 X

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:
İsim giriniz :
Can
bu isim Linked da vardi ve silindi :[Ali, Veli, Ayse]
Process finished with exit code 0

```
1 package JavaKonusalSorular.Pratik24_Set_HashSet_Linked;
2
3 import ...
4
5 public class Pr15 {
6
7     public static void main(String[] args) {
8
9         /*
10            Node'ların değereleri; "Ali" "Veli" "Ayse" "Can" olan bir LinkedList oluşturun
11            Kullanıcıdan bir isim alın o isim LinkedList'de varsa silin ve kullanıcıya
12            "Bu isim LinkedList'de vardi ve silindi" diye mesaj verin
13            Girilen isim yoksa "Bu isim LinkedList'de yok bu yuzden silinemedi" diye mesaj verin
14
15        */
16
17
18
19        LinkedList<String> ll = new LinkedList<>(Arrays.asList("Ali", "Veli", "Ayse", "Can"));
20
21        Scanner scan = new Scanner(System.in);
22        System.out.println("İsim giriniz :");
23        String isim = scan.nextLine();
24
25
26        if (ll.remove(isim)) {
27
28            System.out.println("bu isim Linked da vardi ve silindi :" + ll);
29        } else {
30
31            System.out.println("Bu isim linked listte yoktu silinemedi :" + ll);
32        }
33
34    }
35
36}
37
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 7:1 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr16.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr16 > m tekrarlariSil

Project Commit Pull Requests Bookmarks Structure

Pr10.java x Pr11.java x Pr12.java x Pr13.java x Pr14.java x Pr15.java x Pr16.java x Run: Pr16 x

Notifications

```
1 package JavaKonusalSorular.Pratik24_Set_HashSet_Linked;
2 import ...
3 public class Pr16 {
4     public static void main(String[] args) {
5         // Verilen bir Array'deki tekrarlı elemanları silip
6         // unique elemanlardan oluşan bir Array'e çeviren bir method yazınız
7
8         int arr[] = {2,3,4,3,5,3,6,4,7,4,8,5};
9
10        //Methodda
11        int tekrsizArray [] = tekrarlariSil(arr);
12        System.out.println("Main method içinde Array olarak : " +Arrays.toString(tekrsizArray));
13        //Main method içinde Array olarak : [2, 3, 4, 5, 6, 7, 8]
14    }
15
16    public static int[] tekrarlariSil(int[] arr) {
17        Set<Integer> set1 = new HashSet<>();
18        //Set HashSet'in parent'i olduğu için HashSet metodlarını kullanamaz ama daha hızlı çalışır.
19        // Set interface olduğu için obj oluşturulamaz HashSet Class olduğu için new ile obj oluşturduk.
20        for (Integer each : arr) {
21            set1.add(each);
22        }
23
24        System.out.println(set1); // [2, 3, 4, 5, 6, 7, 8]
25
26        int tekrsizArray []=new int[set1.size()]; // yukarıdaki tekrsiz array den farklı!
27        int index=0;
28        for (int each : set1) {
29            tekrsizArray[index]=each;
30            index++;
31        }
32
33        return tekrsizArray;
34    }
35
36
37 }
```

Run: C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:[2, 3, 4, 5, 6, 7, 8]" Main method içinde Array olarak : [2, 3, 4, 5, 6, 7, 8] Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago)

35:31 LF UTF-8 Tab* master

The screenshot shows an IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Project Tab:** Shows a tree view of Java files under "Java2021allfiles".
- Current File:** Pr17.java, located in the "Pratik24_Set_HashSet_Linked" package.
- Code Editor:** The code implements two methods to convert a HashSet to an array of integers. The first method uses a manual loop to copy elements from the set to an array. The second method uses the built-in `toArray()` method of the HashSet class.

```
package JavaKonusalSorular.Pratik24_Set_HashSet_Linked;
import ...;

public class Pr17 {
    public static void main(String[] args) {
        // Soru 1 : Bir HashSet random olarak 10(set.size(10)) adet olacak şekilde
        // 1 den 20 e kadar olan sayılarla doldurup yazdırın
        // Soru 2 : Bu SET i bir fonksiyonda dizine çeviriniz ve yazdırınız.

        HashSet<Integer> hs=generateSet();
        System.out.println("hs = " + hs);
        System.out.println("hs.size() = " + hs.size());

        Integer[] dizi=convertToArray(hs);
        System.out.println("dizi = " + Arrays.toString(dizi));
    }

    public static Integer[] convertToArray(HashSet<Integer> hs)
    {
        //1. Yöntem
        Integer[] dizi=new Integer[hs.size()];

        int index=0;
        for(int e : hs)
        {
            dizi[index]=e;
            index++;
        }

        //2. Yöntem
        dizi = hs.toArray(new Integer[hs.size()]);
        return dizi;
    }
}
```

- Run Tab:** Shows the command used to run the program and the output.
- Output:** The output window shows the execution results: "hs = [16, 3, 19, 4, 7, 8, 11, 13, 14, 15]", "hs.size() = 10", "dizi = [16, 3, 19, 4, 7, 8, 11, 13, 14, 15]", and "Process finished with exit code 0".
- Bottom Status Bar:** Shows "Build completed successfully in 34 sec, 866 ms (moments ago)" and file statistics: 5:1 LF, UTF-8, 4 spaces, master.

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr17.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr17

Project Commit Pull Requests Bookmarks Structure

1.java X Pr12.java X Pr13.java X Pr14.java X Pr15.java X Pr16.java X Pr17.java X Run: Pr17 X

Pr17 21

2. Yöntem

```
Integer[] dizi=new Integer[hs.size()];  
  
int index=0;  
for(int e : hs)  
{  
    dizi[index]=e;  
    index++;  
}  
  
//2. Yöntem  
dizi = hs.toArray(new Integer[hs.size()]);  
  
return dizi;
```

public static HashSet<Integer> generateSet()
{
 HashSet<Integer> set = new HashSet<>();

 int a = 0;

 while(set.size() < 10)
 {
 a = (int) (Math.random() * 20);
 set.add(a);
 }
 return set;

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Prog
hs = [16, 3, 19, 4, 7, 8, 11, 13, 14, 15]
hs.size() = 10
dizi = [16, 3, 19, 4, 7, 8, 11, 13, 14, 15]
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 34 sec, 866 ms (a minute ago) 5:1 LF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr18.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik24_Set_HashSet_Linked > Pr18 > setOlustur

Project Commit Pull Requests Bookmarks Structure

Run: Pr18

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Prog 44.69

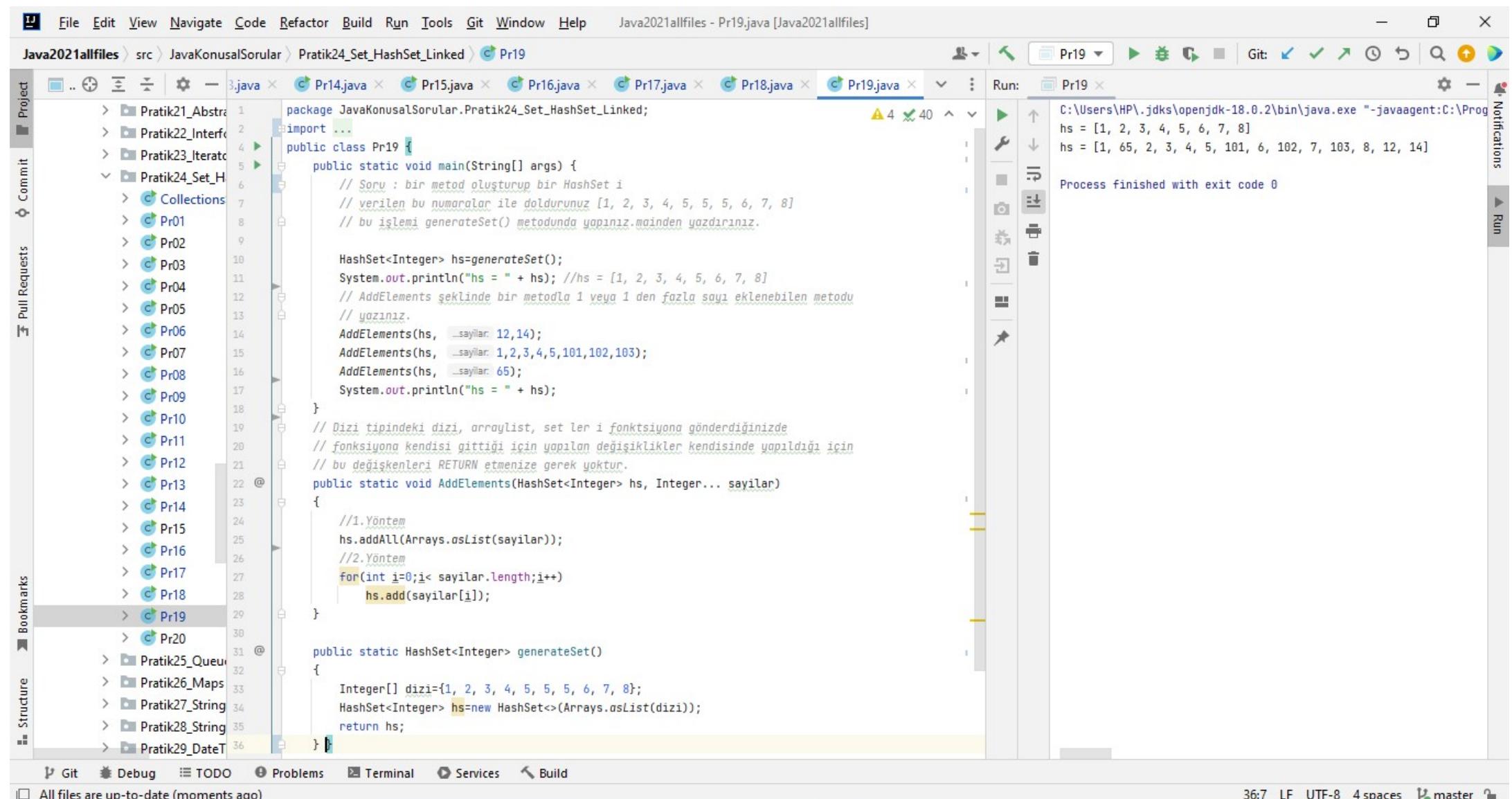
Process finished with exit code 0

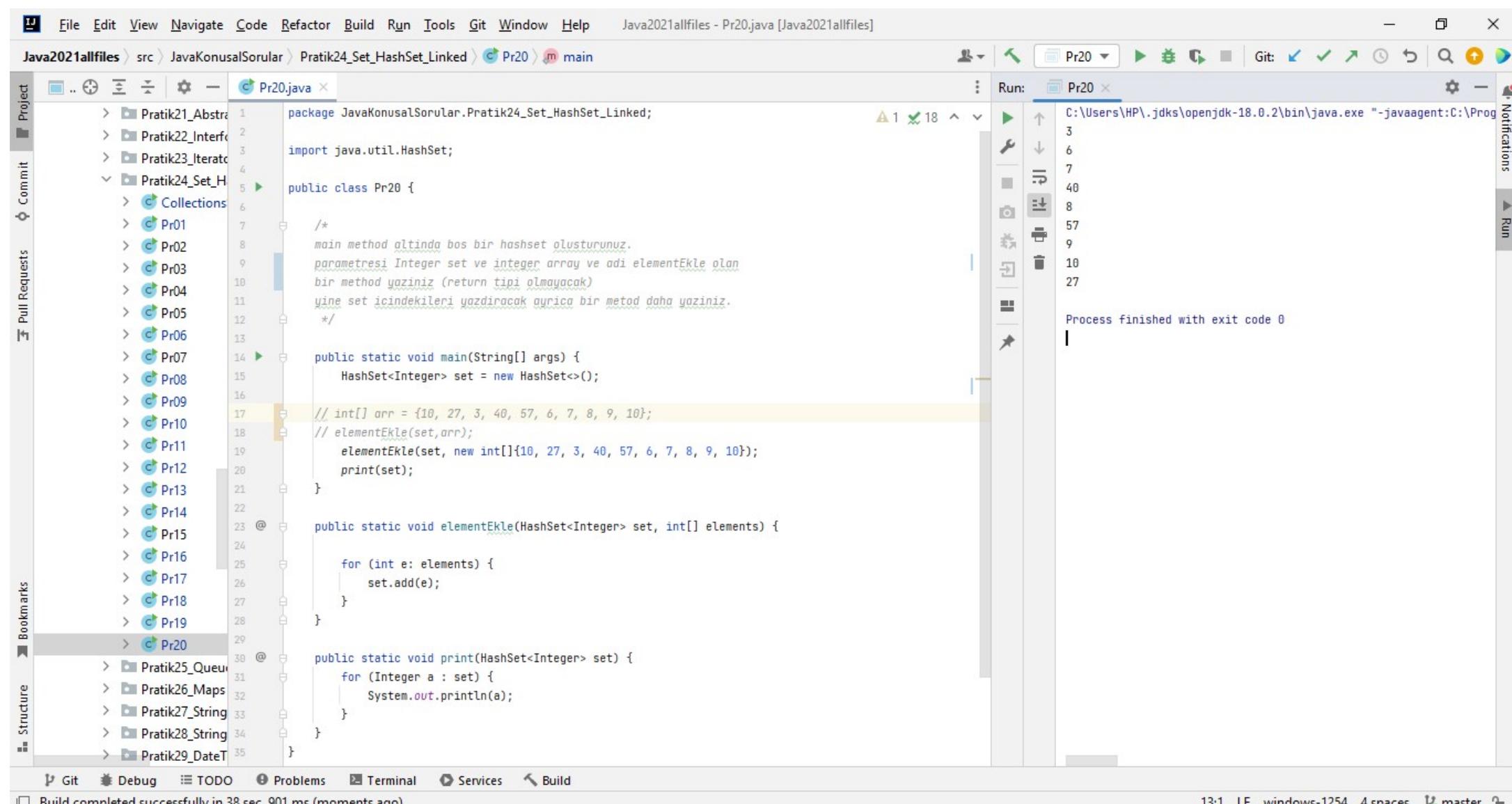
```
1 package JavaKonusalSorular.Pratik24_Set_HashSet_Linked;
2 import java.util.HashSet;
3 public class Pr18 {
4     /* main method altında bir double hashSet oluşturunuz.
5      * ve bu seti, adı setOlustur ve return tipi HashSet double olan
6      * aynı bir metod altında 3.23 , 3.10 , 5.12 , 10.12 , 23.12 değerlerini kullanarak doldurun.
7      * adını toplaminiAl koyacağınız ve parametre olarak bir Double hashSet kabul
8      * edecek aynı bir method oluşturarak hashSetin değerlerinin toplamını alacaksınız. */
9
10    public static void main(String[] args) {
11        HashSet<Double> set = setOlustur();
12        double toplam = toplaminiAl(set);
13        System.out.println(toplam);
14        // System.out.println(toplaminiAl(set));
15        // System.out.println(set);
16    }
17
18    @
19    public static HashSet<Double> setOlustur() {
20        HashSet<Double> set = new HashSet<>();
21        set.add(3.23);
22        set.add(3.10);
23        set.add(5.12);
24        set.add(10.12);
25        set.add(23.12);
26        return set;
27    }
28
29    public static double toplaminiAl(HashSet<Double> set) {
30        double toplam = 0;
31        for (Double aDouble : set) {
32            toplam += aDouble;
33        }
34        return toplam;
35    }
36 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 20 sec, 768 ms (moments ago)

5:1 LF windows-1254 Tab* master





File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr01.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik25_Queue_Degue > Pr01 > main

Project Commit Pull Requests Bookmarks Structure

Pr01.java QueueMethods.java Pr01.java

Run: Pr01

Notifications Run

```
package JavaKonusalSorular.Pratik25_Queue_Degue;
import ...
public class Pr01 {

    public static void main(String[] args) {

        // kuyruguna alır... Queue da indexli method yoktur...
        Queue <String> k1=new PriorityQueue<>();

        k1.add("D");
        k1.add("C");
        k1.add("M");
        k1.add("A");

        System.out.println(k1); // [A, C, M, D]
        // kendine göre sıralama yapar PriorityQueue

        Queue <String> k2=new LinkedList<>();

        k2.add("D");
        k2.add("C");
        k2.add("M");
        k2.add("A");
        |
        System.out.println(k2); // [D, C, M, A]
        // oluşturma sırasında göre yapar LinkedList

        k2.offer( "Z");
        System.out.println(k2); // [D, C, M, A, Z]
        // add gibi sona ekler ama queue ya hastır...

        k2.peek();
        System.out.println(k2); // [D, C, M, A, Z]
        // hic ekleme olmadığı için gynnisini verdi
    }
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Prog [A, C, M, D] [D, C, M, A] [D, C, M, A, Z] [D, C, M, A, Z] D [D, C, M, A, Z] [C, M, A, Z] true [C, M, Z] [M, Z] Exception in thread "main" java.util.NoSuchElementException Create at java.base/java.util.LinkedList.removeFirst(LinkedList.java at java.base/java.util.LinkedList.remove(LinkedList.java:689) at JavaKonusalSorular.Pratik25_Queue_Degue.Pr01.main(Pr01.java:37) Process finished with exit code 1

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 24 sec, 573 ms (moments ago)

26:9 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr01.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik25_Queue_Degue > Pr01 > main

Project Commit Pull Requests Bookmarks Structure

Pr01.java QueueMethods.java Pr01.java

Run: Pr01

Notifications

Pr01.java

```
// soyle yaparsak
System.out.println(k2.peek()); // D
// ilk elemeni silmeden return eder...
System.out.println(k2); // [D, C, M, A, Z]

k2.remove();
System.out.println(k2); // [C, M, A, Z]
// FIFO dan dolayi ilk gelen ilk cikar dan ilk harf gitti..

System.out.println(k2.remove(0, "A")); // true
// icine yazilinca true false dondurur...

System.out.println(k2); // [C, M, Z]
k2.poll();
System.out.println(k2); // [M, Z]
// poll methodu ilk elemani silerek return eder...

// poll bos bir queue da null dondurur..
// remove ise bos bir queue da exception dondurur..

k2.remove();
k2.remove();
k2.remove();
System.out.println(k2); // NoSuchElementException

// isEmpty bos ise true dolu ise false dondurur..
// element() methodu ise bos ise NoSuchElementException dondurur..
```

Run: Pr01

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Prog[A, C, M, D]
[D, C, M, A]
[D, C, M, A, Z]
[D, C, M, A, Z]
D
[D, C, M, A, Z]
[C, M, A, Z]
true
[C, M, Z]
[M, Z]
Exception in thread "main" java.util.NoSuchElementException
at java.base/java.util.LinkedList.removeFirst(LinkedList.java:489)
at java.base/java.util.LinkedList.remove(LinkedList.java:689)
at JavaKonusalSorular.Pratik25_Queue_Degue.Pr01.main(Pr01.java:14)

Process finished with exit code 1

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 24 sec, 573 ms (moments ago) 26:9 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr02.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik25_Queue_Degue > Pr02 > main

Project Commit Pull Requests Bookmarks Structure

Pr02.java QueueMethods.java Pr01.java Pr02.java

Run: Pr02

Notifications Run

```
package JavaKonusalSorular.Pratik25_Queue_Degue;
import ...;

public class Pr02 {
    public static void main(String[] args) {
        /*
         * Fifo : First in first out --> Elemanlar ilk eklenen ilk silinir eczane
         * yemekhane vs sektörlerde zmanı kaydi olan elemanların tutulmasında
         * kullanılır.
         * Queue interface'nın iki subclass constructoru ile obj created
         * edilebilir. LinkedList constructoru ile obj created edilirse elemanlar Queue
         * içinde insertion order'e göre sıralanır. PriorityQueue constructoru ile obj
         * created edilirse elemanlar Queue içinde java'nın kendine özel algoritmasına göre
         * sıralanır.
         */

        Queue<String> q1 = new LinkedList<>(); // obj için const

        q1.add("basri");
        q1.add("hakan");
        q1.add("sedef");
        q1.add("ahmet");
        System.out.println(q1); // [basri, hakan, sedef, ahmet]
        // --> java LinkedList geregi insertion order'e göre sıra oluşturdu..

        Queue<String> q2 = new PriorityQueue<>(); // obj için const

        q2.add("rabia");
        q2.add("oguz");
        q2.add("yagmur");
        q2.add("mehmet");
        System.out.println(q2); // [mehmet, oguz, yagmur, rabia]
        // --> java kendi PriorityQueue(oncelik sırası) algoritmasını calistirdi
    }
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Prog [basri, hakan, sedef, ahmet] [mehmet, oguz, yagmur, rabia] basri [basri, hakan, sedef, ahmet] basri [hakan, sedef, ahmet] true [hakan, sedef, ahmet, merve]

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago)

30:25 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr02.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik25_Queue_Degue > Pr02 > main

Project Commit Pull Requests Bookmarks Structure

Pr02.java QueueMethods.java Pr01.java Pr02.java

Run: Pr02

Notifications Run

```
System.out.println(q1.peek()); // basri --> ilk elemani silmeden return eder
System.out.println(q1); // [basri, hakan, sedef, ahmet]

System.out.println(q1.poll()); // basri -> ilk elemani silerek return eder
System.out.println(q1); // [ hakan, sedef, ahmet]

// q1.clear();//artik q1 bos
// System.out.println(q1.poll()); //bos bir obj den ilk eleman silip return etme
// komutu girdik-->Null

// System.out.println(q1.remove()); //bos bir obj den ilk eleman silip return
// etme komutu girdik--> NoSuchElementException
// q1.remove();
// System.out.println(q1); // [sedef, ahmet]

System.out.println(q1.offer( e: "merve")); // true

System.out.println(q1); // [hakan, sedef, ahmet, merve]
// --> offer() method'u add() methodu gibi eleman ekler
// ancak eleman siniri konulduysa add() metodу IllegalStateException fırlatır.
// ancak offer() metodundan bu durumdan kod çalışmaya devam edet
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Prog [basri, hakan, sedef, ahmet]
[mehmet, oguz, yagmur, rabia]
basri
[basri, hakan, sedef, ahmet]
basri
[hakan, sedef, ahmet]
true
[hakan, sedef, ahmet, merve]

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 30:25 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr03.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik25_Queue_Degue > Pr03 > main

Project Commit Pull Requests Bookmarks Structure

Pr20.java QueueMethods.java Pr01.java Pr02.java Pr03.java

Run: Pr03

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\Java\Java Platform Debugger Agent\jdt-dm.jar" -Dfile.encoding=UTF-8 C:\Users\HP\OneDrive\Documents\Java2021allfiles\src\JavaKonusalSorular\Pratik25_Queue_Degue\Pr03.java

Output:

```
9 ^ v
[ C, M, A ]
[ C, M, A, L ]
C
L
C
[ M, A, L ]
[ Y, M, A, L ]
```

Process finished with exit code 0

Code:

```
package JavaKonusalSorular.Pratik25_Queue_Degue;

import java.util.LinkedList;
import java.util.Deque;

public class Pr03 {

    public static void main(String[] args) {
        // deque çift taraflı demek

        Deque<String> dk1=new LinkedList<>();

        dk1.add("M");
        dk1.add("A");
        dk1.addFirst("C");
        System.out.println(dk1); // [C, M, A]

        dk1.addLast("L");
        System.out.println(dk1); // [C, M, A, L]

        System.out.println(dk1.getFirst()); // C
        System.out.println(dk1.getLast()); // L

        System.out.println(dk1.pop()); // C ilk harfi kesip alır ve siler
        System.out.println(dk1); // [M, A, L]

        dk1.push("Y"); // ilk başa ekler...
        System.out.println(dk1); // [Y, M, A, L]
    }
}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago)

11:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr04.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik25_Queue_Degue > Pr04

Project Commit Pull Requests Bookmarks Structure

Pr04.java QueueMethods.java Pr01.java Pr02.java Pr03.java Pr04.java

Run: Pr04

Notifications

1 package JavaKonusalSorular.Pratik25_Queue_Degue;
2 import ...
3
4 public class Pr04 {
5
6 public static void main(String[] args) {
7
8 Deque<String> dq1=new LinkedList<>(Arrays.asList("SUNA","onur","Suleyman","harun"));
9
10 System.out.println(dq1); // [SUNA, onur, Suleyman, harun]
11 System.out.println(dq1.peekFirst()); // SUNA --> ilk elemani silmeden verir
12
13 System.out.println(dq1.pollFirst()); // SUNA --> ilk elemani silerek verir
14 System.out.println(dq1); // [onur, Suleyman, harun]
15
16 System.out.println(dq1.peekLast()); // harun --> son elemani silmeden verir
17 System.out.println(dq1); // [onur, Suleyman, harun]
18
19 System.out.println(dq1.pollLast()); // harun --> son elemani silerek verir
20 System.out.println(dq1); // [onur, Suleyman]
21
22 dq1.add("yunus");
23 dq1.add("yusuf");
24 System.out.println(dq1); // [onur, Suleyman, yunus, yusuf]
25
26 System.out.println(dq1.getFirst()); // onur --> istenen ilk elamani getirir ancak silmez
27 System.out.println(dq1.getLast()); // yusuf --> istenen son elamani getirir ancak silmez
28 System.out.println(dq1); // [onur, Suleyman, yunus, yusuf]
29
30 dq1.clear(); //--> sirayiyi bosalttik
31 System.out.println(dq1.peekFirst()); // bos siradan ilk elemani cagirdik null verdi code kirilmadi.
32 System.out.println(dq1.peekLast()); // bos siradan son elemani cagirdik null verdi code kirilmadi.
33
34 System.out.println(dq1.getFirst()); // bos siradan get() methodu ile ilk eleman cagrilirsa NoSuchElementException fırlatir
35 System.out.println(dq1.getLast()); // bos siradan get() methodu ile son eleman cagrilirsa NoSuchElementException fırlatir
36
37 }
}

Run: C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:[SUNA, onur, Suleyman, harun] SUNA SUNA [onur, Suleyman, harun] harun [onur, Suleyman, harun] harun [onur, Suleyman] [onur, Suleyman, yunus, yusuf] onur yusuf [onur, Suleyman, yunus, yusuf] null null Exception in thread "main" java.util.NoSuchElementException at java.base/java.util.LinkedList.getFirst(LinkedList.java:221) at JavaKonusalSorular.Pratik25_Queue_Degue.Pr04.main(Pr04.java:11)
Process finished with exit code 1

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 1:49 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - DequeMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik25_Queue_Degue > DequeMethods > main

Project Commit Pull Requests Bookmarks Structure

QueueMethods.java Pr01.java Pr02.java Pr03.java Pr04.java DequeMethods.java

Run: DequeMethods

C:\Users\HP.jdk\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\javaagent.jar" -Dfile.encoding=UTF-8 JavaKonusalSorular.Pratik25_Queue_Degue.DequeMethods.main

Exception in thread "main" java.util.NoSuchElementException
at java.base/java.util.LinkedList.getFirst(LinkedList.java:247)
at JavaKonusalSorular.Pratik25_Queue_Degue.DequeMethods.main(C:\Users\HP.jdk\openjdk-18.0.2\bin\java.exe:13)

Listenin ilk Hali q1 : [merve, sedef, hakan, mehmet]
1-peekFirst() methodu : merve
1-peekFirst() methodundan sonra : [merve, sedef, hakan, mehmet]
2-peekLast() methodu : mehmet
2-peekLast() methodundan sonra : [merve, sedef, hakan, mehmet]
3-pollFirst() methodu : merve
3-pollFirst() methodundan sonra : [sedef, hakan, mehmet]
4-pollLast() methodu : mehmet
4-pollLast() methodundan sonra : [sedef, hakan]
Yeni elemanlar eklendikten sonra : [sedef, hakan, yunus, hasan]
5-getFirst() methodu : sedef
5-getFirst() methodundan sonra : [sedef, hakan, yunus, hasan]
6 getLast() methodu : hasan
6 getLast() methodundan sonra : [sedef, hakan, yunus, hasan]
clear() methodundan sonra peekFirst(): null
clear() methodundan sonra peekLast(): null
clear() methodundan sonra pollFirst(): null
clear() methodundan sonra pollLast(): null

Process finished with exit code 1

```
1 package JavaKonusalSorular.Pratik25_Queue_Degue;
2
3 import java.util.*;
4
5 public class DequeMethods {
6
7     public static void main(String[] args) {
8         /*
9          * Double Ended Queue : Queue'larda FIFO gecerlidir
10         * Deque'lerde hem FIFO hem de LIFO(Last In First Out) gecerlidir.
11         * Deque bir interface dir dolayisiyla constructor i yoktur.
12         * LinkedList constructor i kullanilarak deque olusturulabilir.
13         * Deques do not accept Null as an element.
14         * Deque de ilk ve son eleman onemli oldugu icin ilk ve son elemana ozel bircok method vardır.
15         */
16
17         // ...
18
19         Deque<String> dq1 = new LinkedList<>(Arrays.asList("merve", "sedef", "hakan", "mehmet"));
20
21         System.out.println("Listenin ilk Hali q1 : " + dq1);
22         // Listenin ilk Hali q1 : [merve, sedef, hakan, mehmet]
23
24         // ...
25
26         // 1-peekFirst() methodu : ilk elemani silmeden verir...
27         System.out.println("1-peekFirst() methodu : " + dq1.peekFirst());
28         // 1-peekFirst() methodu : merve
29         System.out.println("1-peekFirst() methodundan sonra : " + dq1);
30         // 1-peekFirst() methodundan sonra : [merve, sedef, hakan, mehmet]
31
32         // ...
33
34         // 1-pollFirst() methodu : ilk elemani silerek verir...
35         System.out.println("1-pollFirst() methodu : " + dq1.pollFirst());
36         // 1-pollFirst() methodundan sonra : [merve, sedef, hakan, mehmet]
37     }
38 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 26 sec, 169 ms (moments ago)

36:9 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - DequeMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik25_Queue_Degue > DequeMethods.java

Project Commit Pull Requests Bookmarks Structure

QueueMethods.java Pr01.java Pr02.java Pr03.java Pr04.java DequeMethods.java

Run: DequeMethods

Notifications Run

```
// 2-peekLast() methodu : son elemani silmeden verir...
System.out.println("2-peekLast() methodu : " + dq1.peekLast());
// 2-peekLast() methodu : mehmet
System.out.println("2-peekLast() methodundan sonra : " + dq1);
// 2-peekLast() methodundan sonra : [merve, sedef, hakan, mehmet]

// ~~~~~

// 3-pollFirst() methodu : ilk elemani silerek verir...
System.out.println("3-pollFirst() methodu : " + dq1.pollFirst());
// 3-pollFirst() methodu : merve
System.out.println("3-pollFirst() methodundan sonra : " + dq1);
// 3-pollFirst() methodundan sonra : [sedef, hakan, mehmet]

// ~~~~~

// 4-pollLast() methodu : son elemani silerek verir...
System.out.println("4-pollLast() methodu : " + dq1.pollLast());
// 4-pollLast() methodu : mehmet
System.out.println("4-pollLast() methodundan sonra : " + dq1);
// 4-pollLast() methodundan sonra : [sedef, hakan]

// ~~~~~

// Yeni elemanlar ekleyerek devam edelim...
dq1.add("yunus");
dq1.add("hasan");
System.out.println("Yeni elemanlar eklendikten sonra : " + dq1);
// Yeni elemanlar eklendikten sonra : [sedef, hakan, yunus, hasan]

// ~~~~~

// 5-getFirst() methodu : istenen ilk elamani getirir ancak silmez
System.out.println("5-getFirst() methodu : " + dq1.getFirst());
// 5-getFirst() methodu : sedef
```

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\Java\VisualVM\lib\visualvm-agent.jar" -jar C:\Users\HP\OneDrive\Documents\JavaKonusalSorular\Pratik25_Queue_Degue\DequeMethods.jar

Exception in thread "main" java.util.NoSuchElementException
at java.base/java.util.LinkedList.getFirst(LinkedList.java:24)
at JavaKonusalSorular.Pratik25_Queue_Degue.DequeMethods.main(DequeMethods.java:7)
Listenerin ilk Hali q1 : [merve, sedef, hakan, mehmet]
1-peekFirst() methodu : merve
2-peekLast() methodundan sonra : [merve, sedef, hakan, mehmet]
3-pollFirst() methodu : mehmet
4-pollLast() methodundan sonra : [merve, sedef, hakan, mehmet]
5-getFirst() methodu : merve
6-getLast() methodundan sonra : [sedef, hakan, yunus, hasan]
7-getFirst() methodu : sedef
8-getLast() methodundan sonra : [sedef, hakan, yunus, hasan]
9-getLast() methodu : hasan
10-getLast() methodundan sonra : [sedef, hakan, yunus, hasan]
clear() methodundan sonra peekFirst(): null
clear() methodundan sonra peekLast(): null
clear() methodundan sonra pollFirst(): null
clear() methodundan sonra pollLast(): null

Process finished with exit code 1

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 26 sec, 169 ms (a minute ago) 69:9 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - DequeMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik25_Queue_Degue > DequeMethods > main

Project Commit Pull Requests Bookmarks Structure

QueueMethods.java Pr01.java Pr02.java Pr03.java Pr04.java DequeMethods.java

Run: DequeMethods

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\javaagent.jar" -Dfile.encoding=UTF-8 Java2021allfiles

Exception in thread "main" java.util.NoSuchElementException
at java.base/java.util.LinkedList.getFirst(LinkedList.java:247)
at JavaKonusalSorular.Pratik25_Queue_Degue.DequeMethods.main(DequeMethods.java:24)
Listinin ilk Hali q1 : [merve, sedef, hakan, mehmet]
1-peekFirst() methodu : merve
1-peekFirst() methodundan sonra : [merve, sedef, hakan, mehmet]
2-peekLast() methodu : mehmet
2-peekLast() methodundan sonra : [merve, sedef, hakan, mehmet]
3-pollFirst() methodu : merve
3-pollFirst() methodundan sonra : [sedef, hakan, mehmet]
4-pollLast() methodu : mehmet
4-pollLast() methodundan sonra : [sedef, hakan]
Yeni elemanlar eklendikten sonra : [sedef, hakan, yunus, hasan]
5-getFirst() methodu : sedef
5-getFirst() methodundan sonra : [sedef, hakan, yunus, hasan]
6 getLast() methodu : hasan
6 getLast() methodundan sonra : [sedef, hakan, yunus, hasan]
clear() methodundan sonra peekFirst(): null
clear() methodundan sonra peekLast(): null
clear() methodundan sonra pollFirst(): null
clear() methodundan sonra pollLast(): null
Process finished with exit code 1

```
// 5-getFirst() methodu : istenen ilk elamanı getirir ancak silmez
System.out.println("5-getFirst() methodu : " + dq1.getFirst());
// 5-getFirst() methodu : sedef
System.out.println("5-getFirst() methodundan sonra : " + dq1);
// 5-getFirst() methodundan sonra : [sedef, hakan, yunus, hasan]
//

// 6-getLast() methodu : istenen ilk elamanı getirir ancak silmez
System.out.println("6-getLast() methodu : " + dq1.getLast());
// 6-getLast() methodu : hasan
System.out.println("6-getLast() methodundan sonra : " + dq1);
// 6-getLast() methodundan sonra : [sedef, hakan, yunus, hasan]
//

// Listeyi bosaltip bu metodlari uygularsak ne olur ?
dq1.clear();
System.out.println("clear() methodundan sonra peekFirst(): " + dq1.peekFirst());
// clear() methodundan sonra peekFirst(): null

System.out.println("clear() methodundan sonra peekLast(): " + dq1.peekLast());
// clear() methodundan sonra peekLast(): null

System.out.println("clear() methodundan sonra pollFirst(): " + dq1.pollFirst());
// clear() methodundan sonra pollFirst(): null

System.out.println("clear() methodundan sonra pollLast(): " + dq1.pollLast());
// clear() methodundan sonra pollLast(): null

System.out.println("clear() methodundan sonra getFirst(): " + dq1.getFirst());
// Bos Listeden getFirst() methodu ile ilk eleman cagrilirsa NoSuchElementException fırlatır...
System.out.println("clear() methodundan sonra getLast(): " + dq1.getLast());
// Bos Listeden getLast() methodu ile son eleman cagrilirsa NoSuchElementException fırlatır...
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 26 sec, 169 ms (2 minutes ago) 75:74 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - QueueMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik25_Queue_Degue > QueueMethods.java main

Project Commit Pull Requests Bookmarks Structure

Pr20.java QueueMethods.java Pr01.java Pr02.java Pr03.java Pr04.java Del ... Run: QueueMethods X

Notifications Run

```
1 package JavaKonusalSorular.Pratik25_Queue_Degue;
2
3 import ...
4
5 public class QueueMethods {
6
7     public static void main(String[] args) {
8         /*
9          * Fifo : First in first out --> Elemanlar ilk eklenen ilk silinir eczane
10         * yemekhane vs sektorlerde zaman kaydi olam elemanların tutulmasında kullanılır.
11
12         * Queue interface'nin iki subclass constructoru ile obj creat edilebilir. LinkedList ve PriorityQueue...
13
14         * LinkedList constructoru ile obj creat edilirse
15         * elemanlar Queue içinde insertion order'e gore yani ekleme sirasina gore sıralanır
16
17         * PriorityQueue constructoru ile obj creat edilirse elemanlar Queue içinde
18         * java'nın kendine özel algoritmasına göre sıralanır.
19
20     }
21
22
23
24
25     Queue<String> q1 = new LinkedList<>();
26
27     q1.add("basri");
28     q1.add("hakan");
29     q1.add("sedef");
30     q1.add("mehmet");
31     q1.add("yunus");
32     q1.add("hasan");
33     q1.add("merve");
34
35     System.out.println("Listenin ilk Hali q1 : " + q1);
36     // Listenin ilk Hali q1 : [basri, hakan, sedef, mehmet, yunus, hasan, merve]
37     // Not --> java LinkedList geregi insertion order'e gore yani eklilenen siraya sira oluşturdu..

```

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8

Listenin ilk Hali q1 : [basri, hakan, sedef, mehmet, yunus, hasan, merve]

Listenin ilk Hali q2 : [alperen, haluk, tayfun, tahir]

1-peek() methodu : basri

1-peek() methodu PriorityQueue : alperen

1-peek() methodundan sonra : [basri, hakan, sedef, mehmet, yunus, hasan, merve]

1-peek() methodundan sonra PriorityQueue : [alperen, haluk, tayfun, tahir]

2-poll() methodu : basri

2-poll() methodundan sonra : [hakan, sedef, mehmet, yunus, hasan, merve]

2-poll() methodu PriorityQueue : alperen

2-poll() methodundan sonra PriorityQueue : [haluk, tahir, tayfun]

3-offer() methodu : [hakan, sedef, mehmet, yunus, hasan, merve, alperen]

3-offer() methodundan sonra : true

3-offer() methodu PriorityQueue : [haluk, sedef, tayfun, tahir]

3-offer() methodundan sonra PriorityQueue : true

clear() methodu ile : []

clear() methodundan sonra poll() : null

Exception in thread "main" java.util.NoSuchElementException

at java.base/java.util.LinkedList.removeFirst(LinkedList.java:274)

at java.base/java.util.LinkedList.remove(LinkedList.java:689)

at JavaKonusalSorular.Pratik25_Queue_Degue.QueueMethods.main(QueueMethods.java:25)

Process finished with exit code 1

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 43 sec, 159 ms (a minute ago)

55:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - QueueMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik25_Queue_Degue > QueueMethods > main

Project Commit Pull Requests Bookmarks Structure

Pr20.java QueueMethods.java Pr01.java Pr02.java Pr03.java Pr04.java Del ... Run: QueueMethods

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70

```
// Listenin ilk Hali q1 : [basri, hakan, sedef, mehmet, yunus, hasan, merve]
// Not --> java LinkedList geregi insertion order'e gore yani eklenilen siraya sira olusturdu..
// 
Queue<String> q2 = new PriorityQueue<>();

q2.add("tahir");
q2.add("alperen");
q2.add("tayfun");
q2.add("haluk");

System.out.println("Listenin ilk Hali q2 : " + q2);
// Listenin ilk Hali q2 : [alperen, haluk, tayfun, tahir]
// --> java kendi PriorityQueue(oncelik sirasi)algoritmasini calistirdi. Kendine gore dizilim yapar...
// 

//1-peek() methodu ; ilk elemani silmeden bize return eder.
System.out.println("1-peek() methodu : " + q1.peek());
// 1-peek() methodu : basri
System.out.println("1-peek() methodu PriorityQueue : " + q2.peek());
// 1-peek() methodu : alperen

// q1 listesini tekrar yazdirmak istersek peek yoptigi ilk elaman silinmeden yazdirir...
System.out.println("1-peek () methodundan sonra : " + q1);
// 1-peek () methodundan sonra : [basri, hakan, sedef, mehmet, yunus, hasan, merve]
System.out.println("1-peek () methodundan sonra PriorityQueue : " + q2);
// 1-peek () methodundan sonra PriorityQueue : [alperen, haluk, tayfun, tahir]

// 
// 2-poll(); ilk elemani queue'dan siler ve bize return eder
System.out.println("2-poll() methodu : " + q1.poll());
// 2-poll() methodu : basri
```

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8 -jar C:\Users\HP\IdeaProjects\Java2021allfiles\target\classes.jar
Listenin ilk Hali q1 : [basri, hakan, sedef, mehmet, yunus, hasan, merve]
Listenin ilk Hali q2 : [alperen, haluk, tayfun, tahir]
1-peek() methodu : basri
1-peek() methodu PriorityQueue : alperen
1-peek () methodundan sonra : [basri, hakan, sedef, mehmet, yunus, hasan, merve]
1-peek () methodundan sonra PriorityQueue : [alperen, haluk, tayfun, tahir]
2-poll() methodu : basri
2-poll () methodundan sonra : [hakan, sedef, mehmet, yunus, hasan, merve]
2-poll() methodu PriorityQueue : alperen
2-poll () methodundan sonra PriorityQueue : [haluk, tayfun, tahir]
3-offer() methodu : [hakan, sedef, mehmet, yunus, hasan, merve, alperen]
3-offer() methodundan sonra : true
3-offer() methodu PriorityQueue : [haluk, sedef, tayfun, tahir]
3-offer() methodundan sonra PriorityQueue : true
clear() methodu ile : []
clear() methodundan sonra poll() : null
Exception in thread "main" java.util.NoSuchElementException Create breakpoint
 at java.base/java.util.LinkedList.removeFirst(LinkedList.java:274)
 at java.base/java.util.LinkedList.remove(LinkedList.java:689)
 at JavaKonusalSorular.Pratik25_Queue_Degue.QueueMethods.main(QueueMethods.java:70)

Process finished with exit code 1

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 43 sec, 159 ms (a minute ago)

40:9 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - QueueMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik25_Queue_Degue > QueueMethods > main

Project Commit Pull Requests Bookmarks Structure

Pr20.java QueueMethods.java Pr01.java Pr02.java Pr03.java Pr04.java De... Run: QueueMethods

202 202

```
// 2-poll(); ilk elemani queue'dan siler ve bize return eder
System.out.println("2-poll() methodu : " + q1.poll());
// 2-poll() methodu : basri

// q1 listesini tekrar yazdirmak istersek peek yoptigi ilk elaman olmadan yazdirir...
System.out.println("2-poll () methodundan sonra : " + q1);
// 2-poll () methodundan sonra : [hakan, sedef, mehmet, yunus, hasan, merve]

System.out.println("2-poll() methodu PriorityQueue : " + q2.poll());
// 1-peek() methodu PriorityQueue : alperen

// q2 listesini tekrar yazdirmak istersek peek yoptigi ilk elaman olmadan yazdirir...
System.out.println("2-poll () methodundan sonra PriorityQueue : " + q2);
// 2-poll () methodundan sonra PriorityQueue : [haluk, tahir, tayfun]

// 3-offer(); eleman eklemek icin kullanilir. Add gibidir ama queue ya hastir...
// Ancak eleman siniri konulduysa add() metodu IllegalStateException fırlatır.
// Ancak offer() methodunda bu durum olmadan kod calismaya devam eder...

q1.offer( e: "alperen");
System.out.println("3-offer() methodu : " + q1);
// 3-offer() methodu : [hakan, sedef, mehmet, yunus, hasan, merve, alperen]

// Yazdirmak istedigimizde consol da bize varsa true yoksa false dondurur...
System.out.println("3-offer() methodundan sonra : " + q1.offer( e: "alperen"));
// 3-offer() methodundan sonra : true

q2.offer( e: "sedef");
System.out.println("3-offer() methodu PriorityQueue : " + q2);
// 3-offer() methodu PriorityQueue : [haluk, sedef, tayfun, tahir]
// PriorityQueue goruldugu üzere yine kafasina gore sedef ismini yerlestirdi...
```

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8 -classpath "C:/Users/HP/IdeaProjects/Java2021allfiles/out/production/Java2021allfiles" JavaKonusalSorular.Pratik25_Queue_Degue.QueueMethods
Listener ilk Hali q1 : [basri, hakan, sedef, mehmet, yunus, hasan, merve]
Listener ilk Hali q2 : [alperen, haluk, tayfun, tahir]
1-peek() methodu : basri
1-peek() methodu PriorityQueue : alperen
1-peek () methodundan sonra : [basri, hakan, sedef, mehmet, yunus, hasan, merve]
1-peek () methodundan sonra PriorityQueue : [alperen, haluk, tayfun, tahir]
2-poll() methodu : basri
2-poll () methodundan sonra : [hakan, sedef, mehmet, yunus, hasan, merve]
2-poll() methodu PriorityQueue : alperen
2-poll () methodundan sonra PriorityQueue : [haluk, tahir, tayfun]
3-offer() methodu : [hakan, sedef, mehmet, yunus, hasan, merve, alperen]
3-offer() methodundan sonra : true
3-offer() methodu PriorityQueue : [haluk, sedef, tayfun, tahir]
3-offer() methodundan sonra PriorityQueue : true
clear() methodu ile : []
clear() methodundan sonra poll() : null
Exception in thread "main" java.util.NoSuchElementException
 at java.base/java.util.LinkedList.removeFirst(LinkedList.java:274)
 at java.base/java.util.LinkedList.remove(LinkedList.java:689)
 at JavaKonusalSorular.Pratik25_Queue_Degue.QueueMethods.main(QueueMethods.java:102)

Process finished with exit code 1

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 43 sec, 159 ms (2 minutes ago) 40:9 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - QueueMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik25_Queue_Degue > QueueMethods > main

Project Commit Pull Requests Bookmarks Structure

Pr20.java QueueMethods.java Pr01.java Pr02.java Pr03.java Pr04.java Del ... Run: QueueMethods

102
103 // Yazdirmak istedigimizde consol da bize varsa true yoksa false dondurur...
104 System.out.println("3-offer() methodundan sonra PriorityQueue : " + q2.offer(e: "sedef"));
105 // 3-offer() methodundan sonra PriorityQueue : true
106
107 // poll() methoduyla ilgili ek bilgi : Hata gorecegimizden code acisindan asagiya almis olduk...
108 // Listeyi bosaltip sordurursak ne olur?
109
110 q1.clear();
111 System.out.println("clear() methodu ile : " + q1);
112 // clear() methodu ile : []
113
114 // poll() methodu listeden ilk elemani silerek return eder. biz ise boz listede bunu yaparsa ne olur diye
115 System.out.println("clear() methodundan sonra poll() : " + q1.poll());
116 // clear() methodundan sonra poll() : null
117
118 // Bir onceki islemi remove(indexsiz remove ilk elemani siler) methodu ile sil dersek ne olur?
119 System.out.println("clear() methodundan sonra remove() : " + q1.remove());
120 // clear() methodundan sonra remove() : NoSuchElementException
121
122 //
123
124
125
126 // isEmpty bos ise true dolu ise false dondurur..
127 // element() methodu ise bos ise NoSuchElementException dondurur..
128
129
130
131 }

Run: QueueMethods

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8 -jar "C:\Users\HP\OneDrive\Yazılım\Java\Java2021allfiles\out\artifacts\Java2021allfiles_0\queuemethods.jar"
Listenin ilk Hali q1 : [basri, hakan, sedef, mehmet, yunus, hasan, merve]
Listenin ilk Hali q2 : [alperen, haluk, tayfun, tahir]
1-peek() methodu : basri
1-peek() methodu PriorityQueue : alperen
1-peek() methodundan sonra : [basri, hakan, sedef, mehmet, yunus, hasan, merve]
1-peek() methodundan sonra PriorityQueue : [alperen, haluk, tayfun, tahir]
2-poll() methodu : basri
2-poll() methodundan sonra : [hakan, sedef, mehmet, yunus, hasan, merve]
2-poll() methodu PriorityQueue : alperen
2-poll() methodundan sonra PriorityQueue : [haluk, tahir, tayfun]
3-offer() methodu : [hakan, sedef, mehmet, yunus, hasan, merve, alperen]
3-offer() methodundan sonra : true
3-offer() methodu PriorityQueue : [haluk, sedef, tayfun, tahir]
3-offer() methodundan sonra PriorityQueue : true
clear() methodu ile : []
clear() methodundan sonra poll() : null
Exception in thread "main" java.util.NoSuchElementException Create breakpoint
at java.base/java.util.LinkedList.removeFirst(LinkedList.java:274)
at java.base/java.util.LinkedList.remove(LinkedList.java:689)
at JavaKonusalSorular.Pratik25_Queue_Degue.QueueMethods.main(QueueMethods.java:131)

Process finished with exit code 1

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 43 sec, 159 ms (2 minutes ago)

40:9 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - HashtableMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > HashtableMethods > main

Project Commit Pull Requests Bookmarks Structure

Pr20.java QueueMethods.java HashtableMethods.java Pr01.java Pr02.java

Run: HashtableMethods

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.2.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8 HashtableMethods

1-size() methodu : 6
2-clone() methodu : {108=Amine, 107=Tahir}
3-clear() methodundan sonra : {}
4-contains(Object value) methodu : true
4-contains(Object value) methodu : false
5-contains(Object key) methodu : false
6-remove() methodu : Yunus
6-remove() methodundan sonra : {106=Alperen, 105=Hasan, 104=Mehmet, 103=Basri, 102=Yunus, 101=Hakan}
7-remove(Object key, Object value) methodu : true
7-remove(Object key, Object value) methodu : {106=Alperen, 105=Hasan, 104=Mehmet, 101=Hakan}
8-get(Object key) methodu : Mehmet
9-getOrDefault(Object key, defaultValue) methodu : Hakan
10-hashCode() methodu : {106=Alperen, 105=Hasan, 104=Mehmet, 101=Hakan}
11-isEmpty() methodu : true
Exception in thread "main" java.lang.NullPointerException Create breakpoint : Cannot invoke "Object.put(Object, Object)" on a null object at java.base/java.util.Hashtable.put(Hashtable.java:481) at JavaKonusalSorular.Pratik26_Maps.HashtableMethods.main(HashtableMethods.java:119)

Process finished with exit code 1

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago) 51:1 CRLF windows-1254 Tab* master

The screenshot shows the IntelliJ IDEA interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Project Structure:** Shows files like Pr20.java, QueueMethods.java, HashtableMethods.java, Pr01.java, and Pr02.java.
- Run Tab:** Set to HashtableMethods.
- Output Log:** Displays the command used to run the Java application and its output. The output shows the execution of various Hashtable methods and ends with a NullPointerException at line 119 of HashtableMethods.java.
- Bottom Bar:** Git, Debug, TODO, Problems, Terminal, Services, Build.
- Status Bar:** All files are up-to-date (a minute ago), 51:1 CRLF, windows-1254, Tab*, master.

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - HashtableMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > HashtableMethods > main

Project Commit Pull Requests Bookmarks Structure

Pr20.java QueueMethods.java HashtableMethods.java Pr01.java Pr02.java Pr03.j

Run: HashtableMethods

Notifications Run

```
35 // 1-size() ; Bu karma tablodaki anahtar sayisini dondurur.
36 System.out.println("1-size() methodu : " + ht.size());
37 // 1-size() methodu : 6

38 Hashtable<Integer, String> ht1 = new Hashtable<>();
39 // Hashtable da ki "t" harfi kucuk olacak dikkat edelim...

40 ht1.put(107, "Tahir");
41 ht1.put(108, "Amine");
42

43 // 2-clone() ; Bu karma tablonun rastgele bir kopyasini olusturur.
44 System.out.println("2-clone() methodu : " + ht1.clone());
45 // 2-clone() methodu : {108=Amine, 107=Tahir}

46

47 // 3-clear() ; key icermemesi icin map i temizler.
48 ht1.clear();
49 System.out.println("3-clear() methodundan sonra : " + ht1);
50 // 3-clear() methodundan sonra : {}

51

52 // 4-contains(Object value) ; Bazi key lerin map te belirtilen degerle eslesip eslesmedigini test eder.
53 System.out.println("4-contains(Object value) methodu : " + ht.contains("Hakan"));
54 // 4-contains(Object value) methodu : true
55 System.out.println("4-contains(Object value) methodu : " + ht1.contains("Tahir"));
56 // 4-contains(Object value) methodu : false
57 // clear methoduyla silindigi icin olmadigindan false verdi...

58

59 // 5-contains(Object key) ; Bu key map te varsa true döner.

60 // 6-remove() ; Bu key map te varsa o degeri siler.

61 // 7-remove(Object key, Object value) ; Bu key ve bu value map te varsa o degeri siler.

62 // 8-get(Object key) ; Bu key map te varsa o degeri döner.

63 // 9-getOrDefault(Object key, defaultValue) ; Bu key map te varsa o degeri döner, yoksa defaultValue döner.

64 // 10-hashCode() ; Bu methodu mapin hash kodunu döner.

65 // 11-isEmpty() ; Bu methodu mapin bos mu döner.

66 // 12-clone() ; Bu methodu mapin rastgele bir kopyasini olusturur.

67 // 13-size() ; Bu methodu mapin anahtar sayisini dondurur.
```

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8 -jar C:\Users\HP\IdeaProjects\Java2021allfiles\out\artifacts\Java2021allfiles_0\run.jar

Listenin Ilk hali : {106=Alperen, 105=Hasan, 104=Mehmet, 103=Basri, 102=Yunus, 101=Kaan}

1-size() methodu : 6

2-clone() methodu : {108=Amine, 107=Tahir}

3-clear() methodundan sonra : {}

4-contains(Object value) methodu : true

4-contains(Object value) methodu : false

5-contains(Object key) methodu : false

6-remove() methodu : Yunus

6-remove() methodundan sonra : {106=Alperen, 105=Hasan, 104=Mehmet, 103=Basri, 101=Kaan}

7-remove(Object key, Object value) methodu : true

7-remove(Object key, Object value) methodu : {106=Alperen, 105=Hasan, 104=Mehmet, 101=Kaan}

8-get(Object key) methodu : Mehmet

9-getOrDefault(Object key, defaultValue) methodu : Hakan

10-hashCode() methodu : {106=Alperen, 105=Hasan, 104=Mehmet, 101=Kaan}

11-isEmpty() methodu : true

Exception in thread "main" java.lang.NullPointerException Create breakpoint : Cannot read file at java.base/java.util.Hashtable.put(Hashtable.java:481)

at JavaKonusalSorular.Pratik26_Maps.HashtableMethods.main(HashtableMethods.java:137)

Process finished with exit code 1

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago) 51:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - HashtableMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > HashtableMethods > main

Project Commit Pull Requests Bookmarks Structure

Pr20.java QueueMethods.java HashtableMethods.java Pr01.java Pr02.java Pr03.java Pr04.java

Run: HashtableMethods

137

68 //
69 // 5-contains(Object key) ; Belirtilen nesnenin bu karma tabloda bir key olup olmadigini test eder.
70 System.out.println("5-contains(Object key) methodu : " + ht.contains(102));
71 // 5-contains(Object key) methodu : false
72 //
73 // 6-remove(Object key) ; Key (ve buna karsilik gelen degeri) kaldirdigini
74 System.out.println("6-remove() methodu : " + ht.remove(key: 102));
75 // 6-remove() methodu : Yunus
76 System.out.println("6-remove() methodundan sonra : " + ht);
77 // 6-remove() methodundan sonra : {106=Alperen, 105=Hasan, 104=Mehmet, 103=Basri, 101=Hakan}
78 // 102 de ki yunus value su silindi..
79 //
80 // 7-remove(Object key, Object value) ; Belirtilen key girisi, yalanizca o anda belirtilen degere eslenmisce kaldirir.
81 System.out.println("7-remove(Object key, Object value) methodu : " + ht.remove(103, "Basri"));
82 // 7-remove(Object key, Object value) methodu : true
83 System.out.println("7-remove(Object key, Object value) methodu : " + ht);
84 // 7-remove(Object key, Object value) methodu : {106=Alperen, 105=Hasan, 104=Mehmet, 101=Hakan}
85 //
86 // 8-get(Object key) ; Belirtilen anahtarın eselendiği değeri veya null bu eşlesme key için eşleme içermiyorsa dondurur...
87 System.out.println("8-get(Object key) methodu : " + ht.get(104));
88 // 8-get(Object key) methodu : Mehmet
89 //
90 // 9-getOrDefault(Object key, V defaultValue) ; Belirtilen key'in esitlendiği değeri veya
91 // defaultValue bu eşleme key için eşleme içermiyorsa dondurur...
92 System.out.println("9-getOrDefault(Object key, defaultValue methodu : " + ht.getOrDefault(key: 101, defaultValue: "Hakan"));
93 // 9-getOrDefault(Object key, defaultValue methodu : Hakan

C:\Users\HP.jdk\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\Java\Java Konusal Sorular\Pratik26_Maps\HashtableMethods.jar" -Dfile.encoding=UTF-8
Listenin Ilk hali : {106=Alperen, 105=Hasan, 104=Mehmet, 103=Basri, 101=Hakan}
1-size() methodu : 6
2-clone() methodu : {108=Amine, 107=Tahir}
3-clear() methodundan sonra : {}
4-contains(Object value) methodu : true
4-contains(Object value) methodu : false
5-contains(Object key) methodu : false
6-remove() methodu : Yunus
6-remove() methodundan sonra : {106=Alperen, 105=Hasan, 104=Mehmet, 103=Basri, 101=Hakan}
7-remove(Object key, Object value) methodu : true
7-remove(Object key, Object value) methodu : {106=Alperen, 105=Hasan, 104=Mehmet, 101=Hakan}
8-get(Object key) methodu : Mehmet
9-getOrDefault(Object key, defaultValue methodu : Hakan
10-hashCode() methodu : {106=Alperen, 105=Hasan, 104=Mehmet, 103=Basri, 101=Hakan}
11-isEmpty() methodu : true
Exception in thread "main" java.lang.NullPointerException
at java.base/java.util.Hashtable.put(Hashtable.java:481)
at JavaKonusalSorular.Pratik26_Maps.HashtableMethods.main(HashtableMethods.java:13)

Process finished with exit code 1

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (2 minutes ago)

51:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - HashtableMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > HashtableMethods > main

Project Commit Pull Requests Bookmarks Structure

Pr20.java QueueMethods.java HashtableMethods.java Pr01.java Pr02.java Pr03.java Pr04.java

Run: HashtableMethods

137

```
    // 9-getOrDefault(Object key, V defaultValue) ; Belirtilen key in esitlendiği değeri veya
    // defaultValue bu esleme key için esleme içermiyorsa doldurur...
    System.out.println("9-getOrDefault(Object key, defaultValue methodu : " + ht.getOrDefault( key: 101, defaultValue: "Hakan"));
    // 9-getOrDefault(Object key, defaultValue methodu : Hakan

    //

    // 10-hashCode() ; Map arayuzundeki tanima göre map için kod değerini doldurur..
    System.out.println("10-hashCode() methodu : " + ht);
    // 10-hashCode() methodu : {106=Alperen, 105=Hasan, 104=Mehmet, 101=Hakan}

    //

    // 11-isEmpty() ; Bu hashtable'in değerlerle key eslemediğini test eder boş ise true dolu ise false doldurur.
    System.out.println("11-isEmpty() methodu : " + ht.isEmpty());
    // 11-isEmpty() methodu : true
    // clear methoduyla silindiği için eleman olmadığından true verdi...

    //

    ht.put(null,"ali");
    //NullPointerException fırlatır

    ht.put(104,null);
    //NullPointerException fırlatır
```

C:\Users\HP.jdk\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Pr Listenin İlk hali : {106=Alperen, 105=Hasan, 104=Mehmet, 103=Ba 1-size() methodu : 6
2-clone() methodu : {108=Amine, 107=Tahir}
3-clear() methodundan sonra : {}
4-contains(Object value) methodu : true
4-contains(Object value) methodu : false
5-contains(Object key) methodu : false
6-remove() methodu : Yunus
6-remove() methodundan sonra : {106=Alperen, 105=Hasan, 104=Meh 7-remove(Object key, Object value) methodu : true
7-remove(Object key, Object value) methodu : {106=Alperen, 105= 8-get(Object key) methodu : Mehmet
9-getOrDefault(Object key, defaultValue methodu : Hakan
10-hashCode() methodu : {106=Alperen, 105=Hasan, 104=Mehmet, 10 11-isEmpty() methodu : true
Exception in thread "main" java.lang.NullPointerException Create at java.base/java.util.Hashtable.put(Hashtable.java:481)
at JavaKonusalSorular.Pratik26_Maps.HashtableMethods.main(H

Process finished with exit code 1

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (2 minutes ago)

51:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - MapsMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > MapsMethods.java main

Project Commit Pull Requests Bookmarks Structure

MapsMethods.java Pr01.java Pr02.java Pr03.java Pr04.java DequeMethods.java Run: MapsMethods

1 package JavaKonusalSorular.Pratik26_Maps;
2
3 import java.util.HashMap;
4
5 public class MapsMethods {
6
7 public static void main(String[] args) {
8 /*
9 Key value yapsini kullanirlar...
10 Key ler unique olmalidir... Or tc no
11 3 farkli map vardir...
12 -- HashMap : En cok kullanılan ve en hızlı olanıdır... Sıralamayı rastgele yapar..
13 Key bir adet null olabilir ama value birden fazla olabilir...
14 -- Hashtable : Key veya value için null kullanılmaz
15 -- TreeMap :
16 */
17 HashMap<Integer, String> m1 = new HashMap<>();
18 m1.put(101, "Hakan");
19 m1.put(102, "Yunus");
20 m1.put(103, "Basri");
21 m1.put(104, "Mehmet");
22 m1.put(105, "Hasan");
23 m1.put(106, "Alperen");
24
25 System.out.println("Listenin ilk hali : " + m1);
26 // Listenin ilk hali : {101=Hakan, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen}
27
28 // 1-put(key,value) methodu aynı key de bir eleman eklendiğinde değişiklik yapar....
29 m1.put(101, "Merve"); // key value su update edilir eski veri üzerine yeni girilen veri yazılır
30
31 // 1-put(key,value) methodu : {101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen}
32
33 // 1-put(key,value) methodu : {101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen}
34
35 // 1-put(key,value) methodu : {101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen}

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8 -jar C:\Users\HP\IdeaProjects\Java2021allfiles\out\artifacts\Java2021allfiles_0\MapsMethods.jar
Listenin ilk hali : {101=Hakan, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen}
1-put(key,value) methodu : {101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen}
1-put(key,value) methodu : {101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen}
1-put(key,value) methodu : {101=Tahir, 102=Merve, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen}
1-put(key,value) methodu : {101=sedef, 102=Merve, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen}
1-put(key,value) methodu : {101=sedef, 102=Merve, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen}
1-put(key,value) methodu : {101=sedef, 102=Merve, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen}
Listenin ilk hali m2 : {1=Birgun, 2=Java, 3=Ogreneccegiz, 4=InsaAllah}
2-m1 e m2 put edildikten sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogreneccegiz, 4=InsaAllah}
2-m1 e m2 put edildikten sonra : {1=Birgun, 2=Java, 3=Ogreneccegiz, 4=InsaAllah}
3-get(key) methodu : Basri
4-getOrDefault(key,defaultDeger) : Mehmet
4-getOrDefault(key,defaultDeger) : Boyle bir eleman yoktur
5-values() methodu : [sedef, Birgun, Java, Ogreneccegiz, InsaAllah, Merve, Yunus]
6-keySet() methodu : [null, 1, 2, 3, 4, 101, 102, 103, 104, 105, 106, 107, 108]
7-putIfAbsent(key, value) methodu : Haluk
7-putIfAbsent(key, value) methodundan sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogreneccegiz, 4=InsaAllah}
7-putIfAbsent(key, value) methodu : Hasan
7-putIfAbsent(key, value) methodundan sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogreneccegiz, 4=InsaAllah}
7-putIfAbsent(key, value) methodu : sedef
7-putIfAbsent(key, value) methodundan sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogreneccegiz, 4=InsaAllah}
7-putIfAbsent(key, value) methodu : Merhaba
7-putIfAbsent(key, value) methodundan sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogreneccegiz, 4=InsaAllah}
Listenin ilk hali m3 : {101=Levent, 102=Said, 103=Huseyin, 104=Fatma, 105=Ayse}
8-remove(eleman) methodundan sonra : {102=Said, 103=Huseyin, 104=Fatma, 105=Ayse}
8-remove(eleman) methodundan sonra : {102=Said, 103=Huseyin, 104=Fatma, 105=Ayse}
8-remove(eleman) methodundan sonra : {103=Huseyin, 104=Fatma, 105=Ayse}
8-remove(eleman) methodundan sonra : false
8-remove(eleman) methodundan sonra : {103=Huseyin, 104=Fatma, 105=Ayse}
9-size() : 3
10-compute(key, (key,value)->yenideger) metodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse}
10-compute(key, (key,value)->yenideger) metodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse}
11-ComputeIfAbsent(key, k->->yenideger) metodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse}
11-ComputeIfAbsent(key, k->->yenideger) metodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse}
12-ComputeIfPresent(key, k->->yenideger) metodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse}

Git Debug TODO Problems Terminal Services Build
All files are up-to-date (7 minutes ago) 11:12 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - MapsMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > MapsMethods.java main

Project Commit Pull Requests Bookmarks Structure

Pr20.java QueueMethods.java HashtableMethods.java MapsMethods.java Pr01.java Pr02.java Pr03.java Pr04.java DequeMethods.java

Notifications Run

```
1 package JavaKonusalSorular.Pratik26_Maps;
2
3 import java.util.HashMap;
4
5 public class MapsMethods {
6
7     public static void main(String[] args) {
8
9         /*
10            * Key value yapsini kullanirlar...
11            * Key ler unique olmalidir... Or tc no
12            * 3 farkli map vardir...
13            -- HashMap : En çok kullanılan ve en hızlı olanıdır... Sıralamayı rastgele yapar..
14            Key bir adet null olabilir ama value birden fazla olabilir...
15            -- Hashtable : Key veya value için null kullanılmaz
16            -- TreeMap :
17
18            */
19
20        HashMap<Integer, String> m1 = new HashMap<>();
21        m1.put(101, "Hakan");
22        m1.put(102, "Yunus");
23        m1.put(103, "Basri");
24        m1.put(104, "Mehmet");
25        m1.put(105, "Hasan");
26        m1.put(106, "Alperen");
27
28        System.out.println("Listenin ilk hali : " + m1);
29        // Listenin ilk hali : {101=Hakan, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen}
30
31        /*
32            * 1-put(key,value) methodu aynı key de bir elaman eklenliğinde değişiklik yapar....
33            * m1.put(101, "Nerve"); // key value su update edilir eski veri üzerine yeni girilen veri yazılır
34        */
35    }
36}
```

Git Debug TODO Problems Terminal Services Build

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11:12 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - MapsMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > MapsMethods > main

Project Commit Pull Requests Bookmarks Structure

Pr20.java QueueMethods.java HashtableMethods.java MapsMethods.java Pr01.java Pr02.java Pr03.java Pr04.java DequeMethods.java

Notifications Run

```
33
34 //1-put(key,value) methodu aynı key de bir elemen eklenendiginde degisiklik yapar...
35 m1.put(101, "Merve"); // key value su update edilir eski veri uzerine yeni girilen veri yazilir
36 System.out.println("1-put(key,value) methodu : " + m1);
37 // 1-put(key,value) methodu : {101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen}
38
39 // Aynı value farklı key'e atanabilir... Value'ler unique(benzersiz) olmak zorunda degil...
40 m1.put(106, "Mehmet");
41 System.out.println("1-put(key,value) methodu : " + m1);
42 // 1-put(key,value) methodu : {101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet}
43
44 // key degeri null olabilir
45 m1.put(null, "Tahir");
46 System.out.println("1-put(key,value) methodu : " + m1);
47 // 1-put(key,value) methodu : {null=sedef, 101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet}
48
49 // null key in e tekrardan bir value eklersek degistirir...
50 m1.put(null, "sedef");
51 System.out.println("1-put(key,value) methodu : " + m1);
52 // 1-put(key,value) methodu : {null=sedef, 101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet}
53
54 // Value degerleri coklu null olabilir
55 m1.put(107, null);
56 m1.put(108, null);
57 System.out.println("1-put(key,value) methodu : " + m1);
58 // 1-put(key,value) methodu : {null=sedef, 101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet, 107=null, 108=null}
59
60 //-----
61
62 HashMap<Integer, String> m2 = new HashMap<>();
63 m2.put(1, "Birgun");
64 m2.put(2, "Java");
65 m2.put(3, "Ogrenecagiz");
66 m2.put(4, "InsaAllah");
67
68 System.out.println("Listenin ilk hali m2 : " + m2);
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (11 minutes ago)

11:12 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - MapsMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > MapsMethods > main

Project Commit Pull Requests Bookmarks Structure

Pr20.java QueueMethods.java HashtableMethods.java MapsMethods.java Pr01.java Pr02.java Pr03.java Pr04.java DequeMethods.java

Notifications Run

```
67 System.out.println("Listenin ilk hali m2 : " + m2);
68 // Listenin ilk hali m2 : {1=Birgun, 2=Java, 3=0grenecegiz, 4=InsaAllah}
69
70 // 2-putAll(map); verilen map deki tum elemanlari bizim map imize ekler, tekrarlanan eleman varsa uzerine yazar
71 m1.putAll(m2);
72
73 // m1 map'e m2 put edildi(eklendi)... Dolayisyle m1 update oldu ancak m2 ayni degerde.
74 // Trick of day : putAll() methodu calismasi icin her iki map'in Data type'leri eslesmeli
75 System.out.println("2-m1 e m2 put edildikten sonra : " + m1);
76 // "m1 e m2 put edildikten sonrasi : {null=sedef, 1=Birgun, 2=Java, 3=0grenecegiz, 4=InsaAllah, 101=Merve, 102=Yunus,
77 // 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet, 107=null, 108=null}"
78 System.out.println("2-m1 e m2 put edildikten sonra : " + m2);
79 // "m1 e m2 put edildikten sonra : {1=Birgun, 2=Java, 3=0grenecegiz, 4=InsaAllah}
80
81 // 3-get(key); istenen key degeri Map de varsa o key e ait value yu, map de yoksa null doner.
82 System.out.println("3-get(key) methodu : " + m1.get(103));
83 // 3-get(key) methodu : Basri
84
85 // 4-getOrDefault(key,defaultDeger); istenen key degeri Map de varsa o key e ait value yu, Key map te yoksa default degeri doner.
86 System.out.println("4-getOrDefault(key,defaultDeger) : " + m1.getOrDefault( key: 106, defaultValue: "Boyle bir eleman yoktur"));
87 // 4-getOrDefault(key,defaultDeger) : Mehmet
88 System.out.println("4-getOrDefault(key,defaultDeger) : " + m1.getOrDefault( key: 111, defaultValue: "Boyle bir eleman yoktur"));
89 // 4-getOrDefault(key,defaultDeger) : Boyle bir eleman yoktur
90
91 // 5-values() methodu ; map'deki tum elemanların value'lerini return eder.
92 System.out.println("5-values() methodu : " + m1.values());
93 // 5-values() methodu : [sedef, Merve, Yunus, Basri, Mehmet, Hasan, Mehmet, null, null]
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (11 minutes ago) 11:12 CRLF UTF-8 Tab* master

The screenshot shows an IDE interface with the following details:

- File Bar:** File Edit View Navigate Code Refactor Build Run Tools Git Window Help
- Title Bar:** Java2021allfiles - MapsMethods.java [Java2021allfiles]
- Project Explorer:** Shows files: Pr20.java, QueueMethods.java, HashtableMethods.java, MapsMethods.java (selected), Pr01.java, Pr02.java, Pr03.java, Pr04.java, DequeMethods.java.
- Status Bar:** All files are up-to-date (11 minutes ago)
- Bottom Right:** Notifications icon, Run button.

The code in `MapsMethods.java` is as follows:

```
104 // 6-keySet() methodu ; map'deki tum elemanların key'lerini return eder.  
105 System.out.println("6-keySet() methodu : " + m1.keySet());  
106 // 6-keySet() methodu : [null, 1, 2, 3, 4, 101, 102, 103, 104, 105, 106, 107, 108]  
107  
108 //  
109  
110 //7-putIfAbsent(key, value); verilen key map de varsa creat eder yoksa ekler.  
111 m1.putAbsent(109, "Haluk");  
112 System.out.println("7-putIfAbsent(key, value) methodu : " + m1.putAbsent(109, "Haluk"));  
113 // 7-putIfAbsent(key, value) : Haluk  
114  
115 System.out.println("7-putIfAbsent(key, value) methodundan sonra : " + m1);  
116 // 7-putIfAbsent(key, value) methodundan sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogrenecigiz, 4=InsaAllah, 101=Merve,  
117 // 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet, 107=null, 108=null, 109=Haluk}  
118  
119 m1.putAbsent(105, "tahir");  
120 System.out.println("7-putIfAbsent(key, value) methodu : " + m1.putAbsent(105, "tahir"));  
121 // 7-putIfAbsent(key, value) methodu : Hasan  
122 // 105 Key'de Ayse value oldg icin tahir put edilmedi.. 105 key'deki value degeri Hasan return edildi  
123  
124 System.out.println("7-putIfAbsent(key, value) methodundan sonra : " + m1);  
125 // 7-putIfAbsent(key, value) methodundan sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogrenecigiz, 4=InsaAllah, 101=Merve,  
126 // 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet, 107=null, 108=null, 109=Haluk}  
127  
128 m1.putAbsent(null, "Selam");  
129 System.out.println("7-putIfAbsent(key, value) methodu : " + m1.putAbsent(null, "Selam"));  
130 // 7-putIfAbsent(key, value) methodu : sedef  
131 // null Key'de sedef value oldugu icin selam put edilmedi..  
132 System.out.println("7-putIfAbsent(key, value) methodundan sonra : " + m1);  
133 // 7-putIfAbsent(key, value) methodundan sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogrenecigiz, 4=InsaAllah, 101=Merve,  
134 // 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet, 107=null, 108=null, 109=Haluk}  
135  
136 m1.putAbsent(107, "Merhaba");  
137 System.out.println("7-putIfAbsent(key, value) methodu : " + m1.putAbsent(107, "Merhaba"));  
138
```

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - MapsMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > MapsMethods > main

Project Commit Pull Requests Bookmarks Structure

Pr20.java QueueMethods.java HashtableMethods.java MapsMethods.java Pr01.java Pr02.java Pr03.java Pr04.java DequeMethods.java

Notifications Run

```
137 m1.putIfAbsent(107, "Merhaba");
138 System.out.println("7-putIfAbsent(key, value) methodu : " + m1.putIfAbsent(107, "Merhaba"));
139 // 7-putIfAbsent(key, value) methodu : Merhaba
140 // 107 Key'de value null oldg icin Merhaba put edildi
141 System.out.println("7-putIfAbsent(key, value) methodundan sonra : " + m1);
142 // 7-putIfAbsent(key, value) methodundan sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogrenecagiz, 4=InsaAllah, 101=Merve,
143 // 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet, 107=Merhaba, 108=null, 109=Haluk}
144
145 /**
146
147 HashMap<Integer, String> m3 = new HashMap<>();
148
149 m3.put(101, "Levent");
150 m3.put(102, "Said");
151 m3.put(103, "Huseyin");
152 m3.put(104, "Fatma");
153 m3.put(105, "Ayse");
154
155 System.out.println("Listenin ilk hali m3 : " + m3);
156 // Listenin ilk hali m3 : {101=Levent, 102=Said, 103=Huseyin, 104=Fatma, 105=Ayse}
157
158 /**
159
160 // 8-remove(eleman) ; Entry : Map de her bir elemani olusturan key value ikilisidir... Ikisi beraber silinir...
161 m3.remove( key: 101);
162 System.out.println("8-remove(eleman) methodundan sonra : " + m3);
163 // 8-remove(eleman) methodundan sonra : {102=Said, 103=Huseyin, 104=Fatma, 105=Ayse}
164
165 m3.remove(102, "said");
166 // key value eslesmesi olursa entry silinir eslesme olmazsa (said!=Said) herhangi bir islem yapilmaz.
167 System.out.println("8-remove(eleman) methodundan sonra : " + m3);
168 // 8-remove(eleman) methodundan sonra : {102=Said, 103=Huseyin, 104=Fatma, 105=Ayse}
169
170 m3.remove(102, "Said");
171 System.out.println("8-remove(eleman) methodundan sonra : " + m3);
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (12 minutes ago)

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File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - MapsMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > MapsMethods > main

Project Commit Pull Requests Bookmarks Structure

Pr20.java QueueMethods.java HashtableMethods.java MapsMethods.java Pr01.java Pr02.java Pr03.java Pr04.java DequeMethods.java

Notifications Run

```
171 System.out.println("8-remove(eleman) methodundan sonra : " + m3);
172 // 8-remove(eleman) methodundan sonra : {103=Huseyin, 104=Fatma, 105=Ayse}
173
174 m3.remove(111, "salih");
175 // Olmayan key'deki entry'i silme islemi yapilmaz
176 System.out.println("8-remove(eleman) methodundan sonra : " + m3.remove(111, "salih"));
177 // 8-remove(eleman) methodundan sonra : false
178
179 System.out.println("8-remove(eleman) methodundan sonra : " + m3);
180 // 8-remove(eleman) methodundan sonra : {103=Huseyin, 104=Fatma, 105=Ayse}
181
182 /**
183
184 // 9-size(); map teki entry sayisini verir..
185 System.out.println("9-size() : " + m3.size());
186 // 9-size() : 3
187
188 /**
189
190 // 10-compute(key, (key,value)->yeniDeger); Verilen map deki istenen key degerine sahip elemanın value sunu gunceller
191 // key map te yoksa ekler..
192 m3.compute( key: 103, (key, value) -> "Haluk");
193 // 103 te ki Huseyin in yerine Haluk gelir...
194 System.out.println("10-compute(key, (key,value)->yeniDeger) metodundan sonra : " + m3);
195 // 10-compute(key, (key,value)->yeniDeger) metodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse}
196
197 m3.compute( key: 106, (key, value) -> "Alperen");
198 // 106 key olmadigi icin ekleme yapar...
199 System.out.println("10-compute(key, (key,value)->yeniDeger) metodundan sonra : " + m3);
200 // 10-compute(key, (key,value)->yeniDeger) metodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse, 106=Alperen}
201
202 /**
203
204 // 11-ComputeIfAbsent(key, k->->yeniDeger); istenen key degeri map de yoksa o key i ve value yu ekler, map de varsa birsey yapmaz...
205 m3.computeIfAbsent( key: 107, value -> "Amine");
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (12 minutes ago)

11:12 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - MapsMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > MapsMethods > main

Project Commit Pull Requests Bookmarks Structure

Pr20.java QueueMethods.java HashtableMethods.java MapsMethods.java Pr01.java Pr02.java Pr03.java Pr04.java DequeMethods.java

Notifications Run

```
196 m3.compute( key: 106, (key, value) -> "Alperen");
197 // 106 key olmadigi icin ekleme yapar...
198 System.out.println("10-compute(key, (key,value)-> yeniDeger) metodundan sonra : " + m3);
199 // 10-compute(key, (key,value)-> yeniDeger) metodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse, 106=Alperen}
200
201 /**
202
203 // 11-ComputeIfAbsent(key, k->->yeniDeger); istenen key degeri map de yoksa o key i ve value yu ekler, map de varsa birsey yapmaz...
204 m3.computeIfAbsent( key: 107, value -> "Amine");
205 // 107 key varsa islem yapilmaz; yoksa atama yapar...
206 System.out.println("11-ComputeIfAbsent(key, k->->yeniDeger) methodundan sonra : " + m3);
207 // 11-ComputeIfAbsent(key, k->->yeniDeger) methodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse, 106=Alperen, 107=Amine}
208
209 m3.computeIfAbsent( key: 105, value -> "Abdullah");
210 // map'de 105 key varligini kontrol eder. 105 key oldugu icin islem yapilmaz...
211 System.out.println("11-ComputeIfAbsent(key, k->->yeniDeger) methodundan sonra : " + m3);
212 // 11-ComputeIfAbsent(key, k->->yeniDeger) methodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse, 106=Alperen, 107=Amine}
213
214 /**
215
216 // 12-ComputeIfPresent(key, (key,value)->yeniDeger); istenen key degeri Map de varsa o key e ait value yu gunceller yoksa birsey yapmaz.
217 m3.computeIfPresent( key: 107,(key,value)-> "Halime");
218 // map'de 109 key varligini kontrol eder. 109 key oldug icin robi value ile update edildi
219 System.out.println("12-ComputeIfPresent(key, k->->yeniDeger) methodundan sonra : " + m3);
220 // 12-ComputeIfPresent(key, k->->yeniDeger) methodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse, 106=Alperen, 107=Halime}
221
222 m3.computeIfPresent( key: 120,(key,value)-> "Hamza");
223 // 120 key oldmadigi icin herhangi bir islem yapilmaz..
224 System.out.println("12-ComputeIfPresent(key, k->->yeniDeger) methodundan sonra : " + m3);
225 // 12-ComputeIfPresent(key, k->->yeniDeger) methodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse, 106=Alperen, 107=Halime}
226
227 /**
228
229 // 13-containsKey(key); istenen key degeri Map de varsa true, yoksa false doner .
230 System.out.println("13-containsKey(key) methodu : " + m3.containsKey(105));
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (13 minutes ago)

11:12 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - MapsMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > MapsMethods > main

Project Commit Pull Requests Bookmarks Structure

Pr20.java QueueMethods.java HashtableMethods.java MapsMethods.java Pr01.java Pr02.java Pr03.java Pr04.java DequeMethods.java

Notifications Run

```
// 13-containsKey(key); istenen key degeri Map de yarsa true, yoksa false doner .
System.out.println("13-containsKey(key) methodu : " + m3.containsKey(105));
// 13-containsKey(key) methodu : true
System.out.println("13-containsKey(key) methodu : " + m3.containsKey(120));
// 13-containsKey(key) methodu : false

// 14-containsValue(value); istenen value degeri Map de yarsa true, yoksa false doner .
System.out.println("14-containsValue(value) methodu : " + m3.containsValue("Halime"));
// 14-containsValue(value) methodu : true
System.out.println("14-containsValue(value) methodu : " + m3.containsValue("Hamza"));
// 14-containsValue(value) methodu : false

// 15-entrySet(); Map deki entry leri bir Set olarak verir. Entry : Map de her bir elemani olusturan key value ikilisidir
System.out.println("15-entrySet() methodu " + m2.entrySet());
// 15-entrySet() methodu [1=Birgun, 2=Java, 3=Ogrenecegiz, 4=InsaAllah]
System.out.println("15-entrySet() methodu " + m3.entrySet());
// 15-entrySet() methodu [103=Haluk, 104=Fatma, 105=Ayse, 106=Alperen, 107=Halime]

// 16-equals(map); Map deki tum elemanlari karslastirir. Hepsinin ise true farkli olan yarsa false dondurur
m2.equals(m3);
System.out.println("16-equals(map) methodu : " + m2.equals(m3));
// 16-equals(map) methodu : false

// 17-clone() methodu
m3.clone();
System.out.println("17-clone() methodu : " + m3.clone());
// 17-clone() methodu : {106=Fatma 105=Ayse 106=Alperen 107=Halime 103=Haluk}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (13 minutes ago)

11:12 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - MapsMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > MapsMethods > main

Run: MapsMethods

C:\Users\HP.jdk\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2022.2\lib\idea_rt.jar=57248:C:\Program Files\JetBrains\IntelliJ IDEA Community Ed

```
Listenin ilk hali : {101=Hakan, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen}
1-put(key,value) methodu : {101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen}
1-put(key,value) methodu : {101=Merve, 102=Basri, 103=Mehmet, 104=Hasan, 105=Alperen}
1-put(key,value) methodu : {null=Tahir, 101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet}
1-put(key,value) methodu : {null=sedef, 101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet}
1-put(key,value) methodu : {null=sedef, 101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet, 107=null, 108=null}
Listenin ilk hali m2 : {1=Birgun, 2=Java, 3=Ogrenecigiz, 4=InsaAllah}
2-m1 e m2 put edildikten sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogrenecigiz, 4=InsaAllah, 101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet, 107=null, 108=null}
2-m1 e m2 put edildikten sonra : {1=Birgun, 2=Java, 3=Ogrenecigiz, 4=InsaAllah}
3-get(key) methodu : Basri
4-getOrDefault(key,defaultDeger) : Mehmet
4-getOrDefault(key,defaultDeger) : Boyle bir eleman yoktur
5-values() methodu : [sedef, Birgun, Java, Ogrenecigiz, InsaAllah, Merve, Yunus, Basri, Mehmet, Hasan, Mehmet, null, null]
6-keySet() methodu : [null, 1, 2, 3, 4, 101, 102, 103, 104, 105, 106, 107, 108]
7-putIfAbsent(key, value) methodu : Haluk
7-putIfAbsent(key, value) methodundan sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogrenecigiz, 4=InsaAllah, 101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet, 107=null, 108=null, 109=Haluk}
7-putIfAbsent(key, value) methodu : Hasan
7-putIfAbsent(key, value) methodundan sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogrenecigiz, 4=InsaAllah, 101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet, 107=null, 108=null, 109=Hasan}
7-putIfAbsent(key, value) methodu : sedef
7-putIfAbsent(key, value) methodundan sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogrenecigiz, 4=InsaAllah, 101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet, 107=null, 108=null, 109=Hasan}
7-putIfAbsent(key, value) methodu : Merhaba
7-putIfAbsent(key, value) methodundan sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogrenecigiz, 4=InsaAllah, 101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet, 107=Merhaba, 108=null, 109=Merhaba}
Listenin ilk hali m3 : {101=Levent, 102=Said, 103=Huseyin, 104=Fatma, 105=Ayse}
8-remove(eleman) methodundan sonra : {102=Said, 103=Huseyin, 104=Fatma, 105=Ayse}
8-remove(eleman) methodundan sonra : {102=Said, 103=Huseyin, 104=Fatma, 105=Ayse}
8-remove(eleman) methodundan sonra : {103=Huseyin, 104=Fatma, 105=Ayse}
8-remove(eleman) methodundan sonra : false
8-remove(eleman) methodundan sonra : {103=Huseyin, 104=Fatma, 105=Ayse}
9-size() : 3
10-compute(key, (key,value)-> yeniDeger) metodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse}
10-compute(key, (key,value)-> yeniDeger) metodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse, 106=Alperen}
11-ComputeIfAbsent(key, k->-> yeniDeger) metodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse, 106=Alperen, 107=Amine}
11-ComputeIfAbsent(key, k->-> yeniDeger) metodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse, 106=Alperen, 107=Amine}
12-ComputeIfPresent(key, k->-> yeniDeger) metodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse, 106=Alperen, 107=Halime}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (13 minutes ago)

11:12 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - MapsMethods.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > MapsMethods > main

Run: MapsMethods

Project Commit Pull Requests Bookmarks Structure Notifications Run

```
4-getOrDefault(key,defaultValue) . Buyle bir eleman yurur
5-values() methodu : [sedef, Birgun, Java, Ogrenecigiz, InsaAllah, Merve, Yunus, Basri, Mehmet, Hasan, Mehmet, null, null]
6-keySet() methodu : [null, 1, 2, 3, 4, 101, 102, 103, 104, 105, 106, 107, 108]
7-putIfAbsent(key, value) methodu : Haluk
7-putIfAbsent(key, value) methodundan sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogrenecigiz, 4=InsaAllah, 101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet, 107=null, 108=null, 109=Ha
7-putIfAbsent(key, value) methodu : Hasan
7-putIfAbsent(key, value) methodundan sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogrenecigiz, 4=InsaAllah, 101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet, 107=null, 108=null, 109=Ha
7-putIfAbsent(key, value) methodu : sedef
7-putIfAbsent(key, value) methodundan sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogrenecigiz, 4=InsaAllah, 101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet, 107=null, 108=null, 109=Ha
7-putIfAbsent(key, value) methodu : Merhaba
7-putIfAbsent(key, value) methodundan sonra : {null=sedef, 1=Birgun, 2=Java, 3=Ogrenecigiz, 4=InsaAllah, 101=Merve, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Mehmet, 107=null, 108=null, 109=Ha
Listenin ilk hali m3 : {101=Levent, 102=Said, 103=Huseyin, 104=Fatma, 105=Ayse}
8-remove(eleman) methodundan sonra : {102=Said, 103=Huseyin, 104=Fatma, 105=Ayse}
8-remove(eleman) methodundan sonra : {102=Said, 103=Huseyin, 104=Fatma, 105=Ayse}
8-remove(eleman) methodundan sonra : {103=Huseyin, 104=Fatma, 105=Ayse}
8-remove(eleman) methodundan sonra : false
8-remove(eleman) methodundan sonra : {103=Huseyin, 104=Fatma, 105=Ayse}
9-size() : 3
10-compute(key, (key,value)->yeniDeger) metodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse}
10-compute(key, (key,value)->yeniDeger) metodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse, 106=Alperen}
11-ComputeIfAbsent(key, k-->yeniDeger) methodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse, 106=Alperen, 107=Amine}
11-ComputeIfAbsent(key, k-->yeniDeger) methodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse, 106=Alperen, 107=Amine}
12-ComputeIfPresent(key, k-->yeniDeger) methodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse, 106=Alperen, 107=Halime}
12-ComputeIfPresent(key, k-->yeniDeger) methodundan sonra : {103=Haluk, 104=Fatma, 105=Ayse, 106=Alperen, 107=Halime}
13-containsKey(key) methodu : true
13-containsKey(key) methodu : false
14-containsValue(value) methodu : true
14-containsValue(value) methodu : false
15-entrySet() methodu [1=Birgun, 2=Java, 3=Ogrenecigiz, 4=InsaAllah]
15-entrySet() methodu [103=Haluk, 104=Fatma, 105=Ayse, 106=Alperen, 107=Halime]
16-equals(map) methodu : false
17-clone() methodu : {104=Fatma, 105=Ayse, 106=Alperen, 107=Halime, 103=Haluk}

Process finished with exit code 0
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (13 minutes ago)

11:12 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik26_Maps\Pr01.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr01

Project Commit Pull Requests Bookmarks Structure

s.java MapsMethods.java Pratik26_Maps\Pr01.java Pratik25_Queue_Degue\Pr01.java Run: Pr01

Pratik23_Iterator
Pratik24_Set_Hash
Pratik25_Queue
Pratik26_Maps
HashtableMe
MapsMethod
Pr01
Pr02
Pr03
Pr04
Pr05
Pr06
Pr07
Pr08
Pr09
Pr10
Pr11
Pr12
TreeMapsMe
Pratik27_StringM
Pratik28_StringB
Pratik29_DateTir
Pratik30_Randor
Pratik31_Recursi
Pratik32_Project
Pratik33_Intervie
Pratik34_ReplitS
Pratik35_Enum
KonuOzetleri
Practice

1 package JavaKonusalSorular.Pratik26_Maps;
2
3 import java.util.HashMap;
4
5 public class Pr01 {
6
7 public static void main(String[] args) {
8
9 HashMap<Integer, String> objeMap=new HashMap<>();
10
11 objeMap.put(101, "Ali, Can, Java");
12 objeMap.put(102, "Veli, Yan, Java");
13 objeMap.put(103, "Ali, Yan, C#");
14
15 System.out.println(objeMap);
16 // {101=Ali, Can, Java, 102=Veli, Yan, Java, 103=Ali, Yan, C#}
17 }
18
19 }
20

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Fi
{101=Ali, Can, Java, 102=Veli, Yan, Java, 103=Ali, Yan, C#}
Process finished with exit code 0

Notifications Run

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 12 sec, 558 ms (4 minutes ago) 20:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik26_Maps\Pr02.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr02 > main

Project Commit Pull Requests Bookmarks Structure Notifications Run

```
1 package JavaKonusalSorular.Pratik26_Maps;
2 import java.util.HashMap;
3 public class Pr02 {
4
5     public static void main(String[] args) {
6
7         HashMap<Integer, String> m1 = new HashMap<>();
8         m1.put(101, "Levent");
9         m1.put(102, "Said");
10        m1.put(103, "Hasan");
11        m1.put(104, "Canan");
12        m1.put(105, "Ayse");
13
14        System.out.println(m1);
15        // {101=Levent, 102=Said, 103=Hasan, 104=Canan, 105=Ayse}
16
17        m1.put(101, "harun"); // key values'i update edilir eski veri üzerine yeni girilen veri yazılır
18        System.out.println(m1); // {101=harun, 102=Said, 103=Hasan, 104=Canan, 105=Ayse}
19
20        m1.put(106, "Canan"); // aynı value farklı key'e atanabilir
21        System.out.println(m1); // {101=harun, 102=Said, 103=Hasan, 104=Canan, 105=Ayse, 106=Canan}
22        // Value'ler unique olmak zorunda değil...
23
24        m1.put(null, "haluk"); // key değeri null olabilir
25        System.out.println(m1); /* {null=haluk, 101=harun, 102=Said, 103=Hasan, 104=Canan, 105=Ayse, 106=Canan} */
26
27        m1.put(null, "hakan");
28        System.out.println(m1); /* {null=hakan, 101=harun, 102=Said, 103=Hasan, 104=Canan, 105=Ayse, 106=Canan} */
29
30        m1.put(107, null); // Value değerleri çoklu null olabilir
31        m1.put(108, null); // Value değerleri çoklu null olabilir
32        m1.put(109, null); // Value değerleri çoklu null olabilir
33        System.out.println(m1);
34        // {null=hakan, 101=harun, 102=Said, 103=Hasan, 104=Canan,
35        // 105=Ayse, 106=Canan, 107=null, 108=null, 109=null}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago)

13:1 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik26_Maps\Pr02.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr02 > main

Project Commit Pull Requests Bookmarks Structure Notifications Run

```
Pratik26_Maps.java < Pratik26_Maps\Pr01.java < Pratik26_Maps\Pr02.java < Pratik25_Queue_Degue\Pr01.java < Pratik25_Queue_Degue\Pr02.java < Pr03.java < Pr04.java < Di...
```

2 206

```
System.out.println(m1);
// {null=hakan, 101=harun, 102=Said, 103=Hasan, 104=Canan,
// 105=Ayse, 106=Canan, 107=null, 108=null, 109=null}
System.out.println(m1.get(103)); // Hasan

System.out.println(m1.values());
// [hakan, harun, Said, Hasan, Canan, Ayse, Canan, null, null, null]
// --> map'deki tüm elemanların value'lerini return eder.

System.out.println(m1.keySet());
// [null, 101, 102, 103, 104, 105, 106, 107, 108, 109]
System.out.println(m1.getOrDefault
    (key: 106, defaultValue: "boyle bir eleman yoktur")); // canan
System.out.println(m1.getOrDefault
    (key: 111, defaultValue: "boyle bir eleman yoktur"));
// boyle bir eleman yoktur.

m1.putIfAbsent(110, "ahmet");
// belirtilen keycreat edilmemisse creat edip value ataması yapar
// -->key 110 yoktu olusturup ahmet atadi.

System.out.println(m1.putIfAbsent(110, "ahmet"));
// belirtilen key yoksa NULL return eder
System.out.println(m1);
/* {null=hakan, 101=harun, 102=Said, 103=Hasan, 104=Canan,
105=Ayse, 106=Canan, 107=null, 108=null, 109=null, 110=ahmet} */

m1.putIfAbsent(105, "salih");
// --> 105 Key'de Ayse value oldg icin salih put edilmedi
System.out.println(m1.putIfAbsent(105, "salih"));
// 105 key'deki value degeri Ayse return edildi
System.out.println(m1); // {null=hakan, 101=harun, 102=Said, 103=Hasan, 104=Canan, 105=Ayse, 106=Canan,
// 107=null, 108=null, 109=null, 110=ahmet}

m1.putIfAbsent(null, "ipek"); // null Key'de hakan value oldg icin ipek put edilmedi
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago) 13:1 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik26_Maps\Pr02.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr02 > main

Project Commit Pull Requests Bookmarks Structure Notifications Run

```
Pratik26_Maps.java < Pratik26_Maps\Pr01.java < Pratik26_Maps\Pr02.java < Pratik25_Queue_Degue\Pr01.java < Pratik25_Queue_Degue\Pr02.java < Pr03.java < Pr04.java < Di...
```

Pratik26_Maps\Pr02.java

```
66 m1.putIfAbsent(null, "ipek");// null Key'de hakan value oldg icin ipek put edilmedi
67 System.out.println(m1);// {null=hakan, 101=harun, 102=Said, 103=Hasan, 104=Canan, 105=Ayse, 106=Canan,
68 // 107=null, 108=null, 109=null, 110=ahmet}
69
70 m1.putIfAbsent(107, "oguz");// 107 Key'de value null oldg icin oguz put edildi
71 System.out.println(m1);// {null=hakan, 101=harun, 102=Said, 103=Hasan, 104=Canan, 105=Ayse, 106=Canan,
72 // 107=oguz, 108=null, 109=null, 110=ahmet}
73
74 /**
75 * HashMap<Integer, String> m3 = new HashMap<>();
76 m3.put(101, "Levent");
77 m3.put(102, "Said");
78 m3.put(103, "Hasan");
79 m3.put(104, "Canan");
80 m3.put(105, "Ayse");
81 System.out.println(m3); // {101=Levent, 102=Said, 103=Hasan, 104=Canan, 105=Ayse}
82
83 m3.remove( key: 101); // belirtilen key'deki Entry : key+value silinir
84 System.out.println(m3); // {102=Said, 103=Hasan, 104=Canan, 105=Ayse}
85
86 m3.remove(102, "said"); // key value eslesmesi olursa entry silinir eslesme olmazsa (said!=Said) herhangi
87 // bir islem yapilmaz.
88 System.out.println(m3); // {102=Said, 103=Hasan, 104=Canan, 105=Ayse}
89 m3.remove(102, "Said");
90 System.out.println(m3); // {103=Hasan, 104=Canan, 105=Ayse}
91
92 m3.remove(111, "salih"); // olmayan key'deki entry'i silme islemi yapilmaz
93 System.out.println(m3.remove(111, "salih")); // false
94 System.out.println(m3); // {103=Hasan, 104=Canan, 105=Ayse}
95
96
97 System.out.println(m3.size()); // 3
98
99 /**
100 * HashMap<Integer, String> m4 = new HashMap<>();
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago)

13:1 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik26_Maps\Pr02.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr02 > main

Project Commit Pull Requests Bookmarks Structure Notifications Run

```
Pratik26_Maps.java x Pratik26_Maps\Pr01.java x Pratik26_Maps\Pr02.java x Pratik25_Queue_Degue\Pr01.java x Pratik25_Queue_Degue\Pr02.java x Pr03.java x Pr04.java x Di ...
```

Pratik26_Maps\Pr02.java

```
100 HashMap<Integer, String> m4 = new HashMap<>();  
101 m4.put(1, "guzel");  
102 m4.put(2, "insan");  
103 m4.put(3, "javacan");  
104 System.out.println(m4);  
  
105 m3.putAll(m4); // m1 map'e m2 put edildi. dolayisile m1 update oldu ancak m2 ayni degerde.  
106 // Trick of day : putAll() methodu calismasi icin her iki map'in Data type'lari eslesmeli  
107  
108 System.out.println(m3); // {1=guzel, 2=insan, 3=javacan, 103=Hasan, 104=Canan, 105=Ayse}  
109  
110 m3.compute( key: 103, (key, value) -> "haluk"); // 103 key'de value varsa update eder yoksa Entry' put eder  
111 System.out.println(m3); // {1=guzel, 2=insan, 3=javacan, 103=haluk, 104=Canan, 105=Ayse}  
112 // --> 103 key'deki haluk olarak update edildi.  
113  
114 m3.compute( key: 109, (key, value) -> "merve hanim"); // 109 key'de olnadigi icin Entry' put eder  
115 System.out.println(m3); // {1=guzel, 2=insan, 3=javacan, 103=haluk, 104=Canan, 105=Ayse, 109=merve hanim}  
116 // --> 109 key'deki 109=merve hanim creat edildi...  
117  
118 m3.computeIfAbsent( key: 111, value -> "said ipek");  
119 // map'de 111 key varligini kontrol eder 111 key yoksa girilen value(said ipek) atanir.  
120 // 111 key varsa islem yapilmaz  
121 System.out.println(m3); // {1=guzel, 2=insan, 3=javacan, 103=haluk, 104=Canan, 105=Ayse, 109=merve hanim, 111=said ipek}  
122 // --> 111 key'deki 111=said ipek creat edildi  
123  
124 m3.computeIfAbsent( key: 109, value -> "ipek"); // map'de 109 key varligini kontrol eder. 109 key oldg icin islem yapilmaz  
125 System.out.println(m3); // {1=guzel, 2=insan, 3=javacan, 103=haluk, 104=Canan, 105=Ayse, 109=merve hanim, 111=said ipek}  
126  
127 m3.computeIfPresent( key: 109, (key,value)-> "rabia"); // map'de 109 key varligini kontrol eder. 109 key oldg icin rabia value ile update edildi  
128 System.out.println(m3); // {1=guzel, 2=insan, 3=javacan, 103=haluk, 104=Canan, 105=Ayse, 109=rabia, 111=said ipek}  
129  
130 m3.computeIfPresent( key: 115, (key,value)-> "rabia"); // map'de 115 key varligini kontrol eder. 115 key oldmadig icin herhangi bir islem yapilmaz  
131 System.out.println(m3); // {1=guzel, 2=insan, 3=javacan, 103=haluk, 104=Canan, 105=Ayse, 109=rabia, 111=said ipek}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago)

103:30 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik26_Maps\Pr02.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr02 > main

Project Commit Pull Requests Bookmarks Structure Notifications Run

Run: Pr02

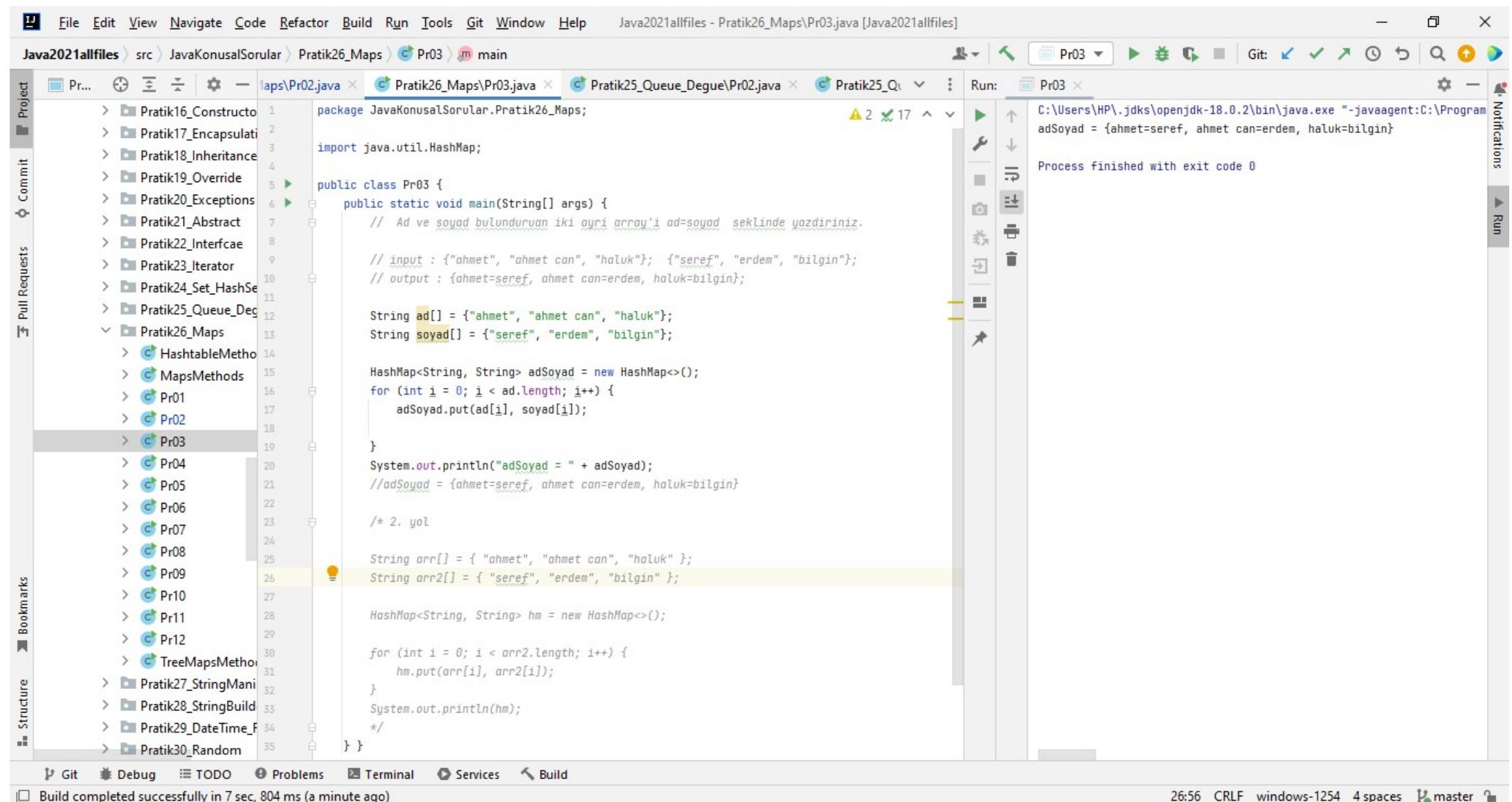
```
C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2022.2\lib\idea_rt.jar=57556:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2022.2\lib\javafxrt.jar=57556,C:\Program Files\Java\jre1.8.0_291\lib\javafxrt.jar" -Dfile.encoding=UTF-8 -jar C:\Users\HP\OneDrive\Yazılım\Java\Java2021allfiles\JavaKonusalSorular\Pratik26_Maps\Pr02.jar
```

101=Levent, 102=Said, 103=Hasan, 104=Canan, 105=Ayse}
101=harun, 102=Said, 103=Hasan, 104=Canan, 105=Ayse}
101=harun, 102=Said, 103=Hasan, 104=Canan, 105=Ayse, 106=Canan}
{null=haluk, 101=harun, 102=Said, 103=Hasan, 104=Canan, 105=Ayse, 106=Canan}
{null=hakan, 101=harun, 102=Said, 103=Hasan, 104=Canan, 105=Ayse, 106=Canan}
{null=hakan, 101=harun, 102=Said, 103=Hasan, 104=Canan, 105=Ayse, 106=Canan, 107=null, 108=null, 109=null}
Hasan
[hakan, harun, Said, Hasan, Canan, Ayse, Canan, null, null, null]
[null, 101, 102, 103, 104, 105, 106, 107, 108, 109]
Canan
boyle bir eleman yoktur
ahmet
{null=hakan, 101=harun, 102=Said, 103=Hasan, 104=Canan, 105=Ayse, 106=Canan, 107=null, 108=null, 109=null, 110=ahmet}
Ayse
{null=hakan, 101=harun, 102=Said, 103=Hasan, 104=Canan, 105=Ayse, 106=Canan, 107=null, 108=null, 109=null, 110=ahmet}
{null=hakan, 101=harun, 102=Said, 103=Hasan, 104=Canan, 105=Ayse, 106=Canan, 107=null, 108=null, 109=null, 110=ahmet}
{null=hakan, 101=harun, 102=Said, 103=Hasan, 104=Canan, 105=Ayse, 106=Canan, 107=oguz, 108=null, 109=null, 110=ahmet}
{101=Levent, 102=Said, 103=Hasan, 104=Canan, 105=Ayse}
{102=Said, 103=Hasan, 104=Canan, 105=Ayse}
{103=Hasan, 104=Canan, 105=Ayse}
false
{103=Hasan, 104=Canan, 105=Ayse}
3
{1=guzel, 2=insan, 3=javacan}
{1=guzel, 2=insan, 3=javacan, 103=Hasan, 104=Canan, 105=Ayse}
{1=guzel, 2=insan, 3=javacan, 103=haluk, 104=Canan, 105=Ayse}
{1=guzel, 2=insan, 3=javacan, 103=haluk, 104=Canan, 105=Ayse, 109=merve hanim}
{1=guzel, 2=insan, 3=javacan, 103=haluk, 104=Canan, 105=Ayse, 109=merve hanim, 111=said ipek}
{1=guzel, 2=insan, 3=javacan, 103=haluk, 104=Canan, 105=Ayse, 109=merve hanim, 111=said ipek}
{1=guzel, 2=insan, 3=javacan, 103=haluk, 104=Canan, 105=Ayse, 109=rabia, 111=said ipek}
{1=guzel, 2=insan, 3=javacan, 103=haluk, 104=Canan, 105=Ayse, 109=rabia, 111=said ipek}

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (2 minutes ago) 60:1 CRLF UTF-8 Tab* master



File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pratik26_Maps\Pr04.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr04 > main

Project Commit Pull Requests Bookmarks Structure

Pr... + ☰ ⚙️ 🔍 ⚙️ - < C Pratik26_Maps\Pr03.java < C Pratik26_Maps\Pr04.java < C Pratik25_Queue_Degue\Pr03.java < Run: Pr04 > Pr04

Notifications Run

```
1 package JavaKonusalSorular.Pratik26_Maps;
2 import ...
3
4 public class Pr04 {
5     /* Count the words in a String one by one
6     Bir Stringdeki kelimeleri tek tek sayin ve konsolda yazdiran method creat ediniz.
7     String Str = "Ali came to school and Ayse came to school"
8     Ali= 1
9     came= 2
10    to= 2
11    school= 2
12    and= 1
13    Ayse= 1 */
14
15     public static void main(String[] args) {
16         Scanner scan = new Scanner(System.in);
17         System.out.print("bir metin bir giriniz :");
18         String metin = scan.nextLine();
19         kelimeSay(metin);
20         scan.close();
21     }
22
23     public static void kelimeSay(String metin) {
24         HashMap<String, Integer> map = new HashMap<>();
25         String kelime[] = metin.split(" ");
26
27         for (int i = 0; i < kelime.length; i++) {
28
29             if (map.containsKey(kelime[i])) {
30                 map.put(kelime[i], map.get(kelime[i]) + 1);
31             } else {
32                 map.put(kelime[i], 1);
33             }
34         }
35         System.out.println(map);
36     }
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program bir metin bir giriniz :Ali came to school and Ayse came to school {school=2, Ayse=1, and=1, came=2, to=2, Ali=1}

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 6 sec, 479 ms (moments ago) 6:1 CRLF windows-1254 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr05.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr05 > main

Project Commit Pull Requests Bookmarks Structure

Pr03.java Pratik26_Maps\Pr04.java Pr05.java Pratik25_Queue_Degue\Pr04.java DequeMet

Run: Pr05

1 27

package JavaKonusalSorular.Pratik26_Maps;
import java.util.Hashtable;
public class Pr05 {
 public static void main(String[] args) {
 /*
 * 1) HashMap ve TreeMap synchronized ve thread-safe degildir. Map'ler arasindan
 * synchronized ve thread-safe olan bir map'e ihtiyac vardir. Bu yuzden
 * Hashtable olusturulmustur.
 *
 * 2) Hashtable TRICK'i :Hashtable ne key icin ne de value icin "null"
 * kullanamaaaaaaaz.
 * 3) Hashtable elemanlari rastgele siralar.
 */

 Hashtable<Integer, String> ht = new Hashtable<>(); // t harfi kucuk olacak dikkat edelim..

 ht.put(101, "ferudun");
 ht.put(102, "samet");
 ht.put(103, "ipek");
 ht.put(104, "IPEK");
 ht.put(105, "harun");
 System.out.println(ht); // {105=harun, 104=IPEK, 103=ipek, 102=samet, 101=ferudun}

 // ht.put(null,"ali");//NullPointerException firlatir
 // ht.put(104,null);//NullPointerException firlatir
 System.out.println(ht);
 System.out.println(ht.size());
 }
}

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program
{105=harun, 104=IPEK, 103=ipek, 102=samet, 101=ferudun}
{105=harun, 104=IPEK, 103=ipek, 102=samet, 101=ferudun}
5
Process finished with exit code 0

Notifications Run

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 22:29 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr06.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr06 main

Project Commit Pull Requests Bookmarks Structure

HashtableMethods.java MapsMethods.java Pr01.java Pr02.java Pr03.java Pr04.java Pr05.java Pr06.java DequeMethods.java

Notifications Run

```
package JavaKonusalSorular.Pratik26_Maps;

import java.util.TreeMap;

public class Pr06 {
    /*
     * 1) TreeMap elemanları natural order'a göre sıralar
     *
     * 2) TreeMap, Map'lerin en yavaşıdır.
     *
     * 3) TreeMap'lerde key'ler için "null" kullanılmaz.
     *
     * 4) TreeMap'lerde value'lar için "null" istenildiği kadar kullanılabilir.
     *
     * 5) TreeMap'ler synchronized ve thread-safe degildirler.
     */

    // Not : Çıktıları ayrı sayfada çıkaracağım... ordan takip edersiniz...

    public static void main(String[] args) {
        // ...
        TreeMap<Integer, String> tm = new TreeMap<>();

        tm.put(101, "Hakan");
        tm.put(102, "Yunus");
        tm.put(103, "Basri");
        tm.put(104, "Mehmet");
        tm.put(105, "Hasan");
        tm.put(106, "Alperen");

        System.out.println("Listenin ilk hali tm : " + tm);
        // Listenin ilk hali tm : {101=Hakan, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen}
    }
}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago) 28:30 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr06.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr06 main

Project Commit Pull Requests Bookmarks Structure

HashtableMethods.java MapsMethods.java Pr01.java Pr02.java Pr03.java Pr04.java Pr05.java Pr06.java DequeMethods.java

Notifications Run

```
// Not ---> tm.put(null,"topla");//NullPointerException fırlatır  
  
// 1-put() methodu ; ekleme yapar...  
tm.put(107, "Merve");  
System.out.println("1-put() methodu : " + tm);  
// 1-put() methodu : {101=Hakan, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen, 107=Merve}  
  
// 2-ceilingKey() method'u ; istenen key degerini varsa return eder.  
// İstenen key degeri(111) map'de yoksa kendisinden büyük en küçük(bir üstü) key olmadığı için null return eder.  
System.out.println("2-ceilingKey() methodu : " + tm.ceilingKey(101));  
// 2-ceilingKey() method'u : 101  
  
System.out.println("2-ceilingKey() methodu : " + tm.ceilingKey(108));  
// 2-ceilingKey() method'u : null  
  
// 3-ceilingEntry() method'u istenen key degeri(100) map'de yoksa  
// kendisinden büyük en küçük(bir üstü) key return yani (101) eder. Entry hem key hem de value icerir...  
System.out.println("3-ceilingEntry() method'u : " + tm.ceilingEntry( key: 100));  
// 3-ceilingEntry() method'u : 101=Hakan  
  
// 4-floorKey() method'u istenen key degeri(108) map'de yoksa kendisinden küçük en büyük(bir altı) key 107 return eder.  
System.out.println("4-floorKey() method : " + tm.floorKey(108));  
// 4-floorKey() method : 107  
  
//
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago)

28:30 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr06.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr06 main

Project Commit Pull Requests Bookmarks Structure

HashtableMethods.java MapsMethods.java Pr01.java Pr02.java Pr03.java Pr04.java Pr05.java Pr06.java DequeMethods.java

Notifications Run

```
69 // 5-floorEntry() method'u istenen key degeri(108) map'de yoksa kendisinden kucuk en buyuk(bir alti) key return 107=Merve eder.
70 System.out.println("5-floorEntry() methodu : " + tm.floorEntry( key: 108));
71 // 5-floorEntry() methodu : 107=Merve
72 //
73 // 6-descendingKeySet() methodu key'leri azalan siralama ile return eder
74 System.out.println("6-descendingKeySet() methodu : " + tm.descendingKeySet());
75 // 6-descendingKeySet() : [107, 106, 105, 104, 103, 102, 101]
76 //
77 // 7-KeySet() methodu key'leri artan siralama ile return eder
78 System.out.println("7-KeySet() methodu : " + tm.keySet());
79 // 7-KeySet() methodu : [101, 102, 103, 104, 105, 106, 107]
80 //
81 // 8-headMap() methodu girilen key haric kendinden once verilen entry'leri return eder...
82 System.out.println("8-headMap() methodu : " + tm.headMap( toKey: 108));
83 // 8-headMap() methodu : {101=Hakan, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen, 107=Merve}
84 //
85 System.out.println("8-headMap() methodu : " + tm.headMap( toKey: 104));
86 // 8-headMap() methodu : {101=Hakan, 102=Yunus, 103=Basri}
87 //
88 // 9-headMap(key, boolean) methodu key ile true oldugunda girilen key dahil onceki entry'leri return eder...
89 // key ile false oldugunda girilen key dahil olmadan onceki entry'leri return eder...
90 System.out.println("9-headMap(key, boolean) methodu : " + tm.headMap( toKey: 104, inclusive: true));
91 // 9-headMap(key, boolean) methodu : {101=Hakan, 102=Yunus, 103=Basri, 104=Mehmet}
92 //
93 System.out.println("9-headMap(key, boolean) methodu : " + tm.headMap( toKey: 104, inclusive: false));
94 // 9-headMap(key, boolean) methodu : {101=Hakan, 102=Yunus, 103=Basri}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (2 minutes ago) 28:30 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr06.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr06 main

Project Commit Pull Requests Bookmarks Structure

HashtableMethods.java MapsMethods.java Pr01.java Pr02.java Pr03.java Pr04.java Pr05.java Pr06.java DequeMethods.java

Notifications Run

```
> Pratik16_Constr 96
> Pratik17_Encaps 97
> Pratik18_Inherit 98
> Pratik19_Override 99
> Pratik20_Exception 100
> Pratik21_Abstract 101
> Pratik22_Interface 102
> Pratik23_Iterator 103
> Pratik24_Set_Hash 104
> Pratik25_Queue 105
> Pratik26_Maps 106
> HashtableMethods.java 107
> MapsMethods.java 108
> Pr01.java 109
> Pr02.java 110
> Pr03.java 111
> Pr04.java 112
> Pr05.java 113
> Pr06.java 114
> Pr07.java 115
> Pr08.java 116
> Pr09.java 117
> Pr10.java 118
> Pr11.java 119
> Pr12.java 120
> TreeMapMethods.java 121
> Pratik27_String 122
> Pratik28_String 123
> Pratik29_DateTime 124
> Pratik30_Random 125
> Pratik26_Maps 126
> Pratik27_String 127
> Pratik28_String 128
> Pratik29_DateTime 129
> Pratik30_Random 130
```

// 9-headMap(key, boolean) methodu key ile true oldugunda girilen key dahil onceki entry'leri return eder...
// key ile false oldugunda girilen key dahil olmadan onceki entry'leri return eder...
System.out.println("9-headMap(key, boolean) methodu : " + tm.headMap(toKey: 104, inclusive: true));
// 9-headMap(key, boolean) methodu : {101=Hakan, 102=Yunus, 103=Basri, 104=Mehmet}

System.out.println("9-headMap(key, boolean) methodu : " + tm.headMap(toKey: 104, inclusive: false));
// 9-headMap(key, boolean) methodu : {101=Hakan, 102=Yunus, 103=Basri}

// 10-tailMap() girilen key haric kendinden sonraki verilen entry'leri return eder...
System.out.println("10-tailMap() methodu : " + tm.tailMap(fromKey: 102));
// 10-tailMap() methodu : {102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen, 107=Merve}

// 11-headMap(key, boolean) methodu key ile true oldugunda girilen key dahil sonraki entry'leri return eder...
// key ile false oldugunda girilen key dahil olmadan sonraki entry'leri return eder...
System.out.println("11-headMap(key, boolean) methodu : " + tm.tailMap(fromKey: 102, inclusive: true));
// 11-headMap(key, boolean) methodu : {102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen, 107=Merve}

System.out.println("11-tailMap(key, boolean) methodu : " + tm.tailMap(fromKey: 102, inclusive: false));
// 11-tailMap(key, boolean) methodu : {103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen, 107=Merve}

All files are up-to-date (2 minutes ago) 28:30 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr06.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr06 main

Project Commit Pull Requests Bookmarks Structure

Pr04.java Pr05.java Pr06.java

Run: Pr06

```
C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2022.1.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8 -jar "C:\Users\HP\IdeaProjects\Java2021allfiles\out\artifacts\Java2021allfiles_jar\Java2021allfiles.jar" "Pr06"
```

// 9-headMap(key, boolean) methodu key
// key ile false oldugunda girilen key
System.out.println("9-headMap(key, boolean) methodu : {101=Hakan, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen, 107=Merve}
1-put() methodu : {101=Hakan, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen, 107=Merve}
2-ceilingKey() methodu : 101
2-ceilingKey() methodu : null
3-ceilingEntry() methodu : 101=Hakan
4-floorKey() methodu : 107
5-floorEntry() methodu : 107=Merve
6-descendingKeySet() methodu : [107, 106, 105, 104, 103, 102, 101]
7-KeySet() methodu : [101, 102, 103, 104, 105, 106, 107]
8-headMap() methodu : {101=Hakan, 102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen, 107=Merve}
8-headMap() methodu : {101=Hakan, 102=Yunus, 103=Basri}
9-headMap(key, boolean) methodu : {101=Hakan, 102=Yunus, 103=Basri, 104=Mehmet}
9-headMap(key, boolean) methodu : {101=Hakan, 102=Yunus, 103=Basri}
10-tailMap() methodu : {102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen, 107=Merve}
11-tailMap(key, boolean) methodu : {102=Yunus, 103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen, 107=Merve}
11-tailMap(key, boolean) methodu : {103=Basri, 104=Mehmet, 105=Hasan, 106=Alperen, 107=Merve}

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (2 minutes ago)

20:1 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr07.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr07.java main

Project Commit Pull Requests Bookmarks Structure

Pr03.java Pr04.java Pr05.java Pr06.java Pr07.java

Run: Pr07

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Com {sebzeler=[kabak, patlican, marul, ıspanak], meyveler=[elma, armut, çilek], vitaminler=[a, b, c, d]} patlican

Process finished with exit code 0

```
1 package JavaKonusalSorular.Pratik26_Maps;
2
3 import ...
4
5
6 public class Pr07 {
7     public static void main(String[] args) {
8         //Maplarda bir keye karşılık birden fazla value olabilir mi?
9
10        /* meyveler    --> elma
11           .          .          .
12           .          .          .
13           .          .          .
14           sebzeler   --> kabak
15           .          .          .
16           .          .          .
17           .          .          .
18           .          .          .
19           vitaminler--> a
20           .          .          .
21           .          .          .
22           .          .          .
23           .          .          .
24           */
25
26        HashMap<String, List<String>> karisik =new HashMap<>();
27
28        /*
29        List<String>meyveler=new ArrayList();
30        meyveler.add("elma");
31        meyveler.add("armut");
32        meyveler.add("çilek");
33        System.out.println(meyveler);
34        */
35
36        List<String> meyveler= Arrays.asList("elma","armut","çilek");
37        karisik.put("meyveler",meyveler );
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 24:21 CRLF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr07.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr07 > main

ods.java < Pr01.java < Pr02.java < Pr03.java < Pr04.java < Pr05.java < Pr06.java < Pr07.java

Run: Pr07 >

Project Commit Pull Requests Bookmarks Structure

Notifications Run

```
22> d
23>
24> 24:  */
25> 25:
26> 26:
27> 27:
28> 28:
29> 29:
30> 30:
31> 31:
32> 32:
33> 33:
34> 34:
35> 35:
36> 36:
37> 37:
38> 38:
39> 39:
40> 40:
41> 41:
42> 42:
43> 43:
44> 44:
45> 45:
46> 46:
47> 47:
48> 48:
49> 49:
50> 50:
51> 51:
```

HashMap<String, List<String>> karisik =new HashMap<>();

/*

```
22> 23> 24:  */
25> 26:
27> 28:
29> 29:
30> 30:
31> 31:
32> 32:
33> 33:
34> 34:
35> 35:
36> 36:
37> 37:
38> 38:
39> 39:
40> 40:
41> 41:
42> 42:
43> 43:
44> 44:
45> 45:
46> 46:
47> 47:
48> 48:
49> 49:
50> 50:
51> 51:
```

List<String> meyveler=new ArrayList();
meyveler.add("elma");
meyveler.add("armut");
meyveler.add("çilek");
System.out.println(meyveler);
*/

List<String> meyveler= Arrays.asList("elma","armut","çilek");
karisik.put("meyveler", meyveler);

List<String> sebzeler=Arrays.asList("kabak","patlican","marul","ıspanak");
karisik.put("sebzeler", sebzeler);

List<String> vitaminler=Arrays.asList("a","b","c","d");
karisik.put("vitaminler", vitaminler);
System.out.println(karisik);
// {sebzeler=[kabak, patlican, marul, ıspanak], meyveler=[elma, armut, çilek], vitaminler=[a, b, c, d]}

System.out.println(karisik.get("sebzeler").get(1)); // patlican

}

}

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Users\HP\IdeaProjects\Java2021allfiles\target\javaagent.jar" -Dfile.encoding=UTF-8 -jar C:\Users\HP\IdeaProjects\Java2021allfiles\target\classes.jar

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago) 24:21 CRLF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr08.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr08 > main

Project Commit Pull Requests Bookmarks Structure

Pr01.java X Pr02.java X Pr03.java X Pr04.java X Pr05.java X Pr06.java X Pr07.java X Pr08.java X Run: Pr08 X

76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136

```
package JavaKonusalSorular.Pratik26_Maps;  
import ...  
public class Pr08 {  
    public static void main(String[] args) {  
  
        HashMap<Integer, String> ogrenciBilgileri=new HashMap<>();  
        ogrenciBilgileri.put(937, "Ali Can-7/B");  
        ogrenciBilgileri.put(531, "Ayşe Çetin-8/A");  
        ogrenciBilgileri.put(856, "Ahmet Demir-5/B");  
        ogrenciBilgileri.put(214, "Melek Durmaz-6/C");  
        ogrenciBilgileri.put(632, "Can Mert -6/C");  
  
        //yeni bir öğrenci girişi yapın .var olan numara ile kayıt yapılmaya çalışıldığında  
        //o numaralı kaydın olduğunu ve o numaraya ait kişinin bilgisini getirsin  
        //eğer belirtilen numara kayıtlı değilse kaydınız eklenmiştir desin.  
        Scanner scan=new Scanner(System.in);  
  
        System.out.println("numara giriniz");  
        int numara=scan.nextInt();  
        scan.nextLine();  
  
        System.out.println("ogrenci bilgisi giriniz");  
        String bilgi=scan.nextLine();  
  
        if( ogrenciBilgileri.putIfAbsent(numara,bilgi)== null ) {  
            // null a eşit olursa böyle bir öğrenci yok demektir ve kayıt yapılabilir...  
  
            System.out.println("kaydınız eklenmiştir: "+ ogrenciBilgileri.get(numara));  
  
        }else { // eğer null a eşit ise kaydın kendini getir...  
            System.out.println("Böyle bir kayıt mevcuttur : Kayıt "+  
                ogrenciBilgileri.putIfAbsent(numara,bilgi)+" kişisine aittir.");  
        }  
    }  
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\...\numara giriniz
777
ogrenci bilgisi giriniz
Mehmet Bilge-M-2 :(
kaydınız eklenmiştir: Mehmet Bilge-M-2 :(
numara giriniz

Run

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago)

8:1 CRLF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr08.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr08 > main

Project Commit Pull Requests Bookmarks Structure

Pr01.java X Pr02.java X Pr03.java X Pr04.java X Pr05.java X Pr06.java X Pr07.java X Pr08.java X Run: Pr08 X

76 777

```
System.out.println("kaydınız eklenmiştir: " + ogrenciBilgileri.get(numara));  
else { // eğer null a eşit ise kaydın kendini getir...  
    System.out.println("Böyle bir kayıt mevcuttur : Kayıt "+  
        ogrenciBilgileri.putIfAbsent(numara,bilgi)+" kişisine aittir.");  
}  
  
// Bir numara girildiğinde o kişiye ait sınıf bilgisini bize göstersin.  
//eğer kayıt yok ise böyle bir kayıt yok mesajı versin  
  
System.out.println("numara giriniz");  
int numara1=scan.nextInt();  
scan.nextLine();  
  
System.out.println(ogrenciBilgileri.get(numara1));  
  
// substring --> a.substring(baslangic indexi, bitis indexi)  
// -->a.substring(baslangic indexi)  
  
System.out.println(ogrenciBilgileri.get(numara1).substring( beginIndex: ogrenciBilgileri.get(numara1).indexOf('-')+1));  
}  
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\ numara giriniz
777
ogrenci bilgisi giriniz
Mehmet Bilge-M-2 :(
kaydınız eklenmiştir: Mehmet Bilge-M-2 :(
numara giriniz

Lightshot
Lightshot
Ekran Görüntüsü Screenshot_477.jpg kaydedildi.
Dosya konumunu açmak için tıklayın.

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago)

8:1 CRLF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr09.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr09 > main

Project Commit Pull Requests Bookmarks Structure

MapsMethods.java Pr01.java Pr02.java Pr03.java Pr04.java Pr05.java Pr06.java Pr07.java Pr08.java Pr09.java

Pratik16_Constructors Pratik17_Encapsulation Pratik18_Inheritance Pratik19_Override Pratik20_Exceptions Pratik21_Abstract Pratik22_Interface Pratik23_Iterator Pratik24_Set_HashSet Pratik25_Queue_Deque Pratik26_Maps HashtableMethods MapsMethods Pr01 Pr02 Pr03 Pr04 Pr05 Pr06 Pr07 Pr08 Pr09 Pr10 Pr11 Pr12 TreeMapsMethods Pratik27_StringManipulation Pratik28_StringBuilding Pratik29_DateTime_Formatting Pratik30_Random

1 package JavaKonusalSorular.Pratik26_Maps;
2
3 import java.util.HashMap;
4
5 public class Pr09 {
6 public static void main(String[] args) {
7
8 HashMap<Integer, String> hm1=new HashMap<>();
9 hm1.put(101, "Ali Han"); // Eleman eklemek için kullanılır.
10 hm1.put(102, "veli Can");
11 hm1.put(103, "Ayşe Tan");
12
13 System.out.println("Hahmap in ilk hali : " + hm1);
14 // Hahmap in ilk hali : {101=Ali Han, 102=veli Can, 103=Ayşe Tan}
15
16 hm1.put(101, "Kemal Yıldız"); // Aynı key kullanıldığında eski kaydın üzerine yazar.
17 System.out.println(hm1);
18 // {101=Kemal Yıldız, 102=veli Can, 103=Ayşe Tan}
19
20 hm1.put(104, "veli Can"); // Tekrarlı key e izin vermez ancak tekrarlı value ye izin verir.
21 System.out.println(hm1);
22 // {101=Kemal Yıldız, 102=veli Can, 103=Ayşe Tan, 104=veli Can}
23
24 hm1.put(null, "merve aslan");
25 System.out.println(hm1);
26 // {null=merve aslan, 101=Kemal Yıldız, 102=veli Can, 103=Ayşe Tan, 104=veli Can}
27
28 hm1.put(null,"hakan inal"); // null olan merve aslan ile degistirir...
29 System.out.println(hm1);
30 // {null=hakan inal, 101=Kemal Yıldız, 102=veli Can, 103=Ayşe Tan, 104=veli Can}
31
32 hm1.put(105,null); // value de 1 den fazla olabilir...
33 System.out.println(hm1);
34 // {null=hakan inal, 101=Kemal Yıldız, 102=veli Can, 103=Ayşe Tan, 104=veli Can, 105=null}

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 11:34 CRLF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr09.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr09 main

Project Commit Pull Requests Bookmarks Structure

MapsMethods.java Pr01.java Pr02.java Pr03.java Pr04.java Pr05.java Pr06.java Pr07.java Pr08.java Pr09.java

Pratik16_Constructor 35
Pratik17_Encapsulation 36
Pratik18_Inheritance 37
Pratik19_Override 38
Pratik20_Exceptions 39
Pratik21_Abstract 40
Pratik22_Interface 41
Pratik23_Iterator 42
Pratik24_Set_HashSet 43
Pratik25_Queue_Deque 44
Pratik26_Maps 45
HashtableMethods 46
MapsMethods 47
Pr01 48
Pr02 49
Pr03 50
Pr04 51
Pr05 52
Pr06 53
Pr07 54
Pr08 55
Pr09 56
Pr10 57
Pr11 58
Pr12 59
TreeMapsMethods 60
Pratik27_StringManipulation 61
Pratik28_StringBuilding 62
Pratik29_DateTime 63
Pratik30_Random 64

hm1.put(106,null); // value de 1 den fazla olabilir...
System.out.println(hm1);
// {null=hakan inal, 101=Kemal Yildiz, 102=veli Can, 103=Ayse Tan, 104=veli Can, 105=null, 106=null}

System.out.println(hm1.get(103)); // Ayse Tan

System.out.println(hm1.values()); // key haric value leri verir
// [hakan inal, Kemal Yildiz, veli Can, Ayse Tan, veli Can, null, null]

System.out.println(hm1.keySet()); // value ler haric tum keyleri getirir..
// [null, 101, 102, 103, 104, 105, 106]

hm1.putIfAbsent(104, "kubilay tuncel"); // Belirtilen key e ait key ve value oldugu icin eklemeli. Yoksa ekle...
System.out.println(hm1);
// {null=hakan inal, 101=Kemal Yildiz, 102=veli Can, 103=Ayse Tan, 104=veli Can, 105=null, 106=null}

System.out.println(hm1.putIfAbsent(107, "hakan tetik")); // null
System.out.println(hm1);
// {null=hakan inal, 101=Kemal Yildiz, 102=veli Can, 103=Ayse Tan, 104=veli Can, 105=null, 106=null, 107=hakan tetik}

hm1.putIfAbsent(105, "faruk efehan");
System.out.println(hm1); // {null=hakan inal, 101=Kemal Yildiz, 102=veli Can, 103=Ayse Tan, 104=veli Can, 105=faruk efehan, 106=null, 107=hakan tetik}

System.out.println("1. mapin eleman sayisi :" + hm1.size()); // 1. mapin eleman sayisi :8

HashMap<Integer, String> hm2 = new HashMap<>();
hm2.put(107, "elma");
hm2.put(106, "Armut");
hm2.put(200, "mandalina");

System.out.println("2. mapin eleman sayisi :" + hm2.size()); // 2. mapin eleman sayisi :3

hm1.putAll(hm2);

Git Debug TODO Problems Terminal Services Build

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File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr09.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr09 main

Project Commit Pull Requests Bookmarks Structure

MapsMethods.java Pr01.java Pr02.java Pr03.java Pr04.java Pr05.java Pr06.java Pr07.java Pr08.java Pr09.java

Pratik16_Constructo
Pratik17_Encapsulat
Pratik18_Inheritance
Pratik19_Override
Pratik20_Exceptions
Pratik21_Abstract
Pratik22_Interfae
Pratik23_Iterator
Pratik24_Set_HashSe
Pratik25_Queue_De
Pratik26_Maps
HashtableMethod
MapsMethods
Pr01
Pr02
Pr03
Pr04
Pr05
Pr06
Pr07
Pr08
Pr09
Pr10
Pr11
Pr12
TreeMapsMetho
Pratik27_StringMan
Pratik28_StringBuild
Pratik29_DateTime_
Pratik30_Random

System.out.println(hm1); // {null=hakan inal, 101=Kemal Yildiz, 102=veli Can, 103=Ayse Tan, 104=veli Can, 105=faruk efehan, 106=null, 107=hakan tetik} 103

System.out.println("1. mapin eleman sayisi :" + hm1.size()); // 1. mapin eleman sayisi :8

HashMap<Integer, String> hm2 = new HashMap<>();
hm2.put(107, "elma");
hm2.put(106, "Armut");
hm2.put(200, "mandalina");

System.out.println("2. mapin eleman sayisi :" + hm2.size()); // 2. mapin eleman sayisi :3

hm1.putAll(hm2);

System.out.println(hm1); // {null=hakan inal, 101=Kemal Yildiz, 102=veli Can, 103=Ayse Tan, 104=veli Can, 200=mandalina, 105=faruk efehan, 106=Armut, 107=elma}

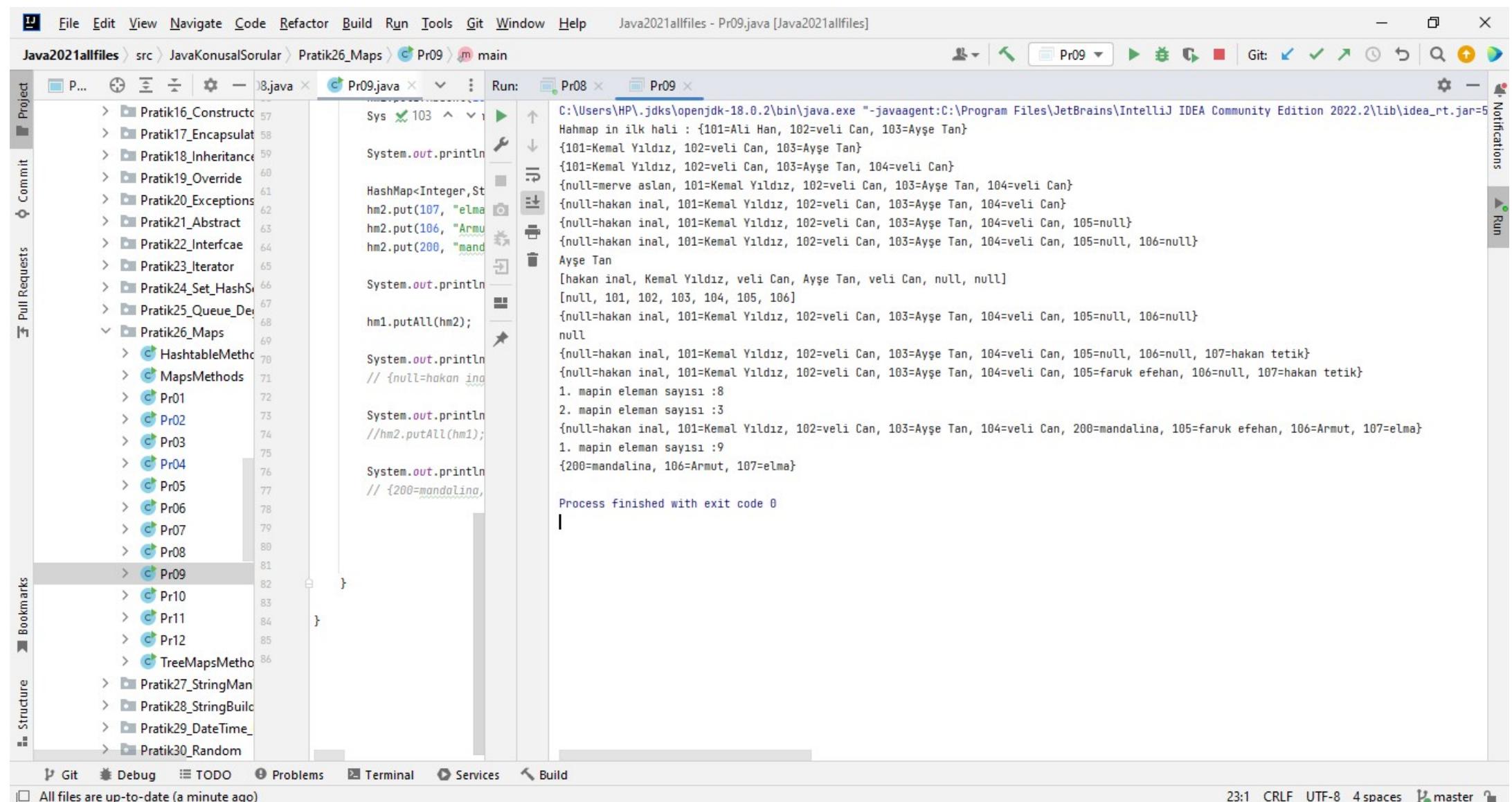
System.out.println("1. mapin eleman sayisi :" + hm1.size()); // 1. mapin eleman sayisi :9
// hm2.putAll(hm1);

System.out.println(hm2); // {200=mandalina, 106=Armut, 107=elma}

}

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago) 11:34 CRLF UTF-8 4 spaces master



File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr10.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr10 main

Project Commit Pull Requests Bookmarks Structure

Pr01.java X Pr02.java X Pr03.java X Pr04.java X Pr05.java X Pr06.java X Pr07.java X Pr08.java X Pr09.java X Pr10.java X

54 Notifications Run

```
1 package JavaKonusalSorular.Pratik26_Maps;
2
3 import ...
4
5 public class Pr10 {
6
7     public static void main(String[] args) {
8
9         /*
10            KimlikNo : ad : Nilüfer
11            1213   soyad : Demir
12            Adres : Ankara
13            bolum : dev
14
15            KimlikNo : ad : ayse
16            9856   soyad : Can
17            Adres : Ankara
18            bolum : qa
19
20        */
21
22
23
24
25
26     HashMap<Integer, HashMap<String, String>> kisiListesi = new HashMap<>();
27
28     HashMap<String, String> kisi1 = new HashMap<>();
29     kisi1.put("ad", "Nilufer");
30     kisi1.put("soyad", "Demir");
31     kisi1.put("adres", "Ankara");
32     kisi1.put("bolum", "dev");
33
34     kisiListesi.put(1213, kisi1);
35     System.out.println("1. kisi : " + kisiListesi.get(1213));
36     // 1. kisi : ad=Nilufer, soyad=Demir, adres=Ankara, bolum=dev}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 22:1 CRLF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr10.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr10 main

Project Commit Pull Requests Bookmarks Structure

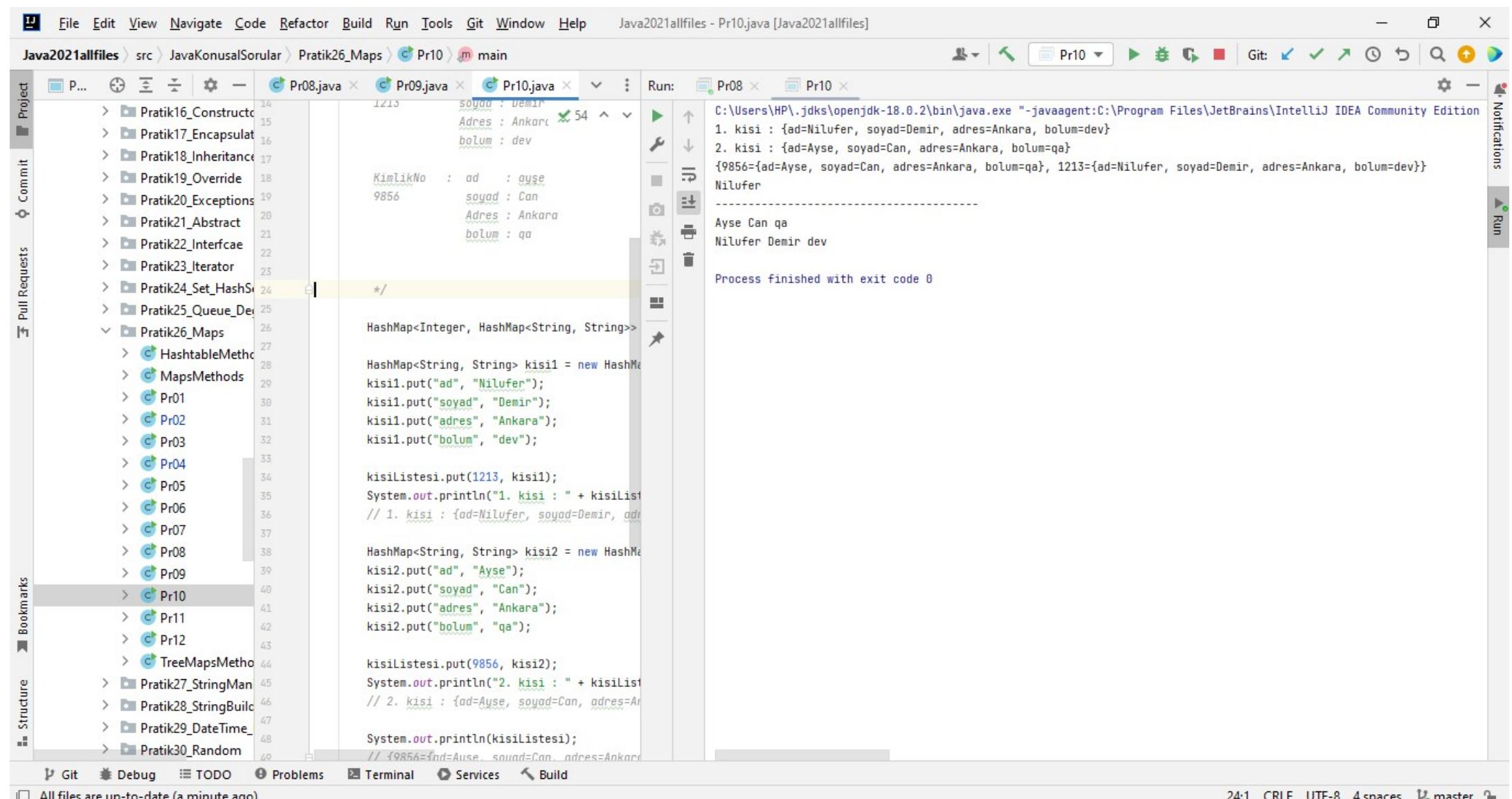
Pr01.java X Pr02.java X Pr03.java X Pr04.java X Pr05.java X Pr06.java X Pr07.java X Pr08.java X Pr09.java X Pr10.java X

54 ^ v Notifications Run

```
> Pratik16_Constructor 35 System.out.println("1. kisi : " + kisiListesi.put(1213, kisi1));
> Pratik17_Encapsulation 36 // 1. kisi : {ad=Nilufer, soyad=Demir, adres=Ankara, bolum=dev}
37
38 HashMap<String, String> kisi2 = new HashMap<>();
39 kisi2.put("ad", "Ayse");
40 kisi2.put("soyad", "Can");
41 kisi2.put("adres", "Ankara");
42 kisi2.put("bolum", "qa");
43
44 kisiListesi.put(9856, kisi2);
45 System.out.println("2. kisi : " + kisiListesi.get(9856));
46 // 2. kisi : {ad=Ayse, soyad=Can, adres=Ankara, bolum=qa}
47
48 System.out.println(kisiListesi);
49 // {9856={ad=Ayse, soyad=Can, adres=Ankara, bolum=qa}, 1213={ad=Nilufer, soyad=Demir, adres=Ankara, bolum=dev}}
50
51 // maplarden data getirme
52 System.out.println(kisiListesi.get(1213).get("ad")); // Nilufer
53 //mapte get methodu ile value ya karsilik gelen mapi getirdi...
54
55 System.out.println("-----");
56
57 for (Map.Entry<Integer, HashMap<String, String>> entry : kisiListesi.entrySet()) {
58     System.out.println(entry.getValue().get("ad") + " " + entry.getValue().get("soyad") + " " +
59                         entry.getValue().get("bolum"));
60     // Ayse Can qa
61     // Nilufer demir dev
62 }
63
64 }
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 22:1 CRLF UTF-8 4 spaces master



File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr11.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr11 > main

Project Commit Pull Requests Bookmarks Structure

java Pr06.java Pr07.java Pr08.java Pr09.java Pr10.java Pr11.java Run: Pr08 Pr11

Notifications

Pr11.java

```
1 package JavaKonusalSorular.Pratik26_Maps;
2
3 import ...
4
5 public class Pr11 {
6
7     public static void main(String[] args) {
8
9         /*
10            1- Kullanıcıdan bir kişinin kimlik numarasını(4 haneli), tam ismini, adresini , telefonunu alın.
11            2- Kimlik numarasını key olarak, diğer bilgileri value olarak bir map'e depolayın
12            3- Kimlik numarasını girerek kullanıcının bilgilerini ekrana yazdırın
13            4- Tüm kullanıcıların isimlerini ekrana yazdırılsın
14        */
15
16        String secim="";
17
18        HashMap<Integer, HashMap<String, String>> kisiListesi=new HashMap<>();
19
20        Scanner scan=new Scanner(System.in);
21
22        do {
23            HashMap<String, String> kisiBilgileri =new HashMap<>();
24
25            System.out.println("Lütfen adınızı ve soyadınızı girin: ");
26            // String isim=scan.nextLine();
27            kisiBilgileri.put("ad",scan.nextLine());
28
29            System.out.println("Lütfen adresinizi girin: ");
30            //String adres=scan.nextLine();
31            kisiBilgileri.put("adres", scan.nextLine());
32
33            System.out.println("Lütfen telefonunuzu girin: ");
34            //String tel=scan.nextLine();
35            kisiBilgileri.put("telefon", scan.nextLine());
36
37        }
38
39    }
40
41 }
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\Java\Java Mission Control 1.0.1\jmc.jar" -Dfile.encoding=UTF-8 -jar C:\Users\HP\IdeaProjects\Java2021allfiles\out\artifacts\Java2021allfiles_0\run1\Java2021allfiles.jar
Lütfen adınızı ve soyadınızı girin:
Mehmet Bilge
Lütfen adresinizi girin:
Ankara
Lütfen telefonunuzu girin:
5052226565
4 haneli kimlik no giriniz:
1245
{ad=Mehmet Bilge, telefon=5052226565, adres=Ankara}
{1245={ad=Mehmet Bilge, telefon=5052226565, adres=Ankara}}
Devam etmek istiyor musunuz(E/H)

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago) 13:1 CRLF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr11.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr11 main

Project Commit Pull Requests Bookmarks Structure

java Pr06.java Pr07.java Pr08.java Pr09.java Pr10.java Pr11.java

Run: Pr08 Pr11

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\YourKit\YourKit Java Agent\yourkit.jar" -jar C:\Users\HP\IdeaProjects\Java2021allfiles\out\artifacts\Java2021allfiles_0\run1\Java2021allfiles.jar

Lutfen adinizi ve soyadinizi girin:
Mehmet Bilge
Lutfen adresinizi girin:
Ankara
Lutfen telefonunuzu girin:
5052226565
4 haneli kimlik no giriniz:
1245
{ad=Mehmet Bilge, telefon=5052226565, adres=Ankara}
{1245={ad=Mehmet Bilge, telefon=5052226565, adres=Ankara}}
Devam etmek istiyor musunuz(E/H)

Pratik16_Constructor
Pratik17_Encapsulation
Pratik18_Inheritance
Pratik19_Override
Pratik20_Exceptions
Pratik21_Abstract
Pratik22_Interface
Pratik23_Iterator
Pratik24_Set_HashSet
Pratik25_Queue_Deque
Pratik26_Maps
HashtableMethods
MapsMethods
Pr01
Pr02
Pr03
Pr04
Pr05
Pr06
Pr07
Pr08
Pr09
Pr10
Pr11
Pr12
TreeMapsMethods
Pratik27_StringManipulation
Pratik28_StringBuilding
Pratik29_DateTime
Pratik30_Random

// String isim=scan.nextLine();
kisiBilgileri.put("ad", scan.nextLine());

System.out.println("Lutfen adresinizi girin: ");
//String adres=scan.nextLine();
kisiBilgileri.put("adres", scan.nextLine());

System.out.println("Lutfen telefonunuzu girin: ");
//String tel=scan.nextLine();
kisiBilgileri.put("telefon", scan.nextLine());

System.out.println("4 haneli kimlik no giriniz: ");
//int kimlikNo=scan.nextInt();
kisiListesi.put(scan.nextInt(), kisiBilgileri);
scan.nextLine(); // dongunun devam etmesi ek ataniyor.. genelde int in altina...

System.out.println(kisiBilgileri);
System.out.println(kisiListesi);
System.out.println("Devam etmek istiyor musunuz(E/H)");
secim=scan.nextLine();
} while (secim.equalsIgnoreCase(anotherString: "E"));

System.out.println("Görüntülemek istediginiz kisinin kimlik numarasini girin ");
System.out.println(kisiListesi.get(scan.nextInt()));

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago) 13:1 CRLF UTF-8 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr12.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr12.java main

Project Commit Pull Requests Bookmarks Structure

Pr03.java Pr04.java Pr05.java Pr06.java Pr07.java Pr08.java Pr09.java Pr10.java Pr11.java Pr12.java

Notifications Run

```
1 package JavaKonusalSorular.Pratik26_Maps;
2
3 import ...
4
5 public class Pr12 {
6
7     static Scanner scan=new Scanner(System.in);
8     static HashMap<Integer, String> kitap=new HashMap<>(); // 3. adim
9
10    public static void main(String[] args) {
11
12        /* Bir kitapci icin program yapalim
13         *
14         * Kitap no 1000'den baslayarak sirali no olsun
15         * Her kitap icin kitapAdi, yazarAdi, yayinYili, fiyati bilgilerini girelim
16         *
17         * Programin baslayinca menu isminde bir method calissin ve kullaniciya istegini sorsun // 1. adim ve 2. adim
18         * 1- kitap ekle
19         * 2- numara ile kitap goruntule
20         * 3- bilgi ile kitap goruntule
21         * 4- numara ile kitap sil
22         * 5- Tum kitaplari listele
23         * 6- Bitir
24         */
25
26        topluKitapEkle(); // 4. adim da method olusturuyoruz..
27
28        menu(); // 1. adim menu isminde method olustur ve 6 maddeyi yazdiralim...
29    }
30
31    public static void menu() { //
32
33        System.out.println("1- Kitap Ekle");
34        System.out.println("2- Kitap Sil");
35        System.out.println("3- Kitap Bilgi Goruntule");
36        System.out.println("4- Kitap Sirali Liste");
37        System.out.println("5- Bitir");
38    }
39
40    public static void topluKitapEkle() {
41        int n;
42        do {
43            System.out.print("Toplu kitap ekleme sayisi: ");
44            n = Integer.parseInt(scan.nextLine());
45        } while (n < 1);
46
47        for (int i = 1; i <= n; i++) {
48            System.out.print("Kitap Adi: ");
49            String kitapAdi = scan.nextLine();
50            System.out.print("Yazar Adi: ");
51            String yazarAdi = scan.nextLine();
52            System.out.print("Yayin Yili: ");
53            String yayinYili = scan.nextLine();
54            System.out.print("Fiyat: ");
55            double fiyat = Double.parseDouble(scan.nextLine());
56
57            kitap.put(i, kitapAdi + " | " + yazarAdi + " | " + yayinYili + " | " + fiyat);
58        }
59    }
60
61    public static void kitapGoruntule(int numara) {
62        if (kitap.containsKey(numara)) {
63            String bilgi = kitap.get(numara);
64            System.out.println(bilgi);
65        } else {
66            System.out.println("Bulunamadi.");
67        }
68    }
69
70    public static void siraliListele() {
71        List<String> siraliListe = new ArrayList<>(kitap.values());
72        Collections.sort(siraliListe);
73        for (String bilgi : siraliListe) {
74            System.out.println(bilgi);
75        }
76    }
77
78    public static void sil(int numara) {
79        if (kitap.containsKey(numara)) {
80            kitap.remove(numara);
81        } else {
82            System.out.println("Bulunamadi.");
83        }
84    }
85
86    public static void main() {
87        menu();
88        int secim;
89        do {
90            System.out.print("Secim: ");
91            secim = Integer.parseInt(scan.nextLine());
92
93            switch (secim) {
94                case 1:
95                    topluKitapEkle();
96                    break;
97                case 2:
98                    sil(secim);
99                    break;
100                case 3:
101                    kitapGoruntule(secim);
102                    break;
103                case 4:
104                    siraliListele();
105                    break;
106                case 5:
107                    System.out.println("Program bitiriliyor...");
108                    break;
109                default:
110                    System.out.println("Hatali secim.");
111            }
112        } while (secim != 5);
113    }
114}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 21:97 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr12.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr12 > main

Project Commit Pull Requests Bookmarks Structure

Pr03.java X Pr04.java X Pr05.java X Pr06.java X Pr07.java X Pr08.java X Pr09.java X Pr10.java X Pr11.java X Pr12.java X

Notifications Run

```
public static void menu() { //  
    System.out.println("1-Kitap ekle \n" + "2-Numara ile kitap goruntule \n" + "3-Bilgi ile kitap goruntule \n"  
        + "4-Numara ile kitap sil \n" + "5-Tum kitaplari listele \n" + "6-Cikis");  
  
    // 2. adim Scanner ve Switch olusturmalıyız..  
  
    System.out.println("Hangi islemi yapmak istiyorsunuz");  
    int secim = scan.nextInt();  
    switch (secim) {  
        case 1:  
            kitapEkle();  
            break;  
        case 2:  
            noIleGoruntule();  
            break;  
        case 3:  
            bilgiIleGoruntule();  
            break;  
        case 4:  
            noIleSil();  
            break;  
        case 5:  
            listele();  
            break;  
        case 6:  
            cikis();  
            break;  
        default:  
            break;  
    }  
  
    // 3. adimda ise static bir HashMap olutruyoruz.. key ve value olacak...
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 21:97 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr12.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr12 > main

Project Commit Pull Requests Bookmarks Structure

Pr03.java X Pr04.java X Pr05.java X Pr06.java X Pr07.java X Pr08.java X Pr09.java X Pr10.java X Pr11.java X Pr12.java X

Notifications Run

```
68 // 3. adimda ise static bir HashMap oluturuyoruz.. key ve value olacak...
69
70     }
71
72     public static void cikis() {
73         // TODO Auto-generated method stub
74     }
75
76     public static void listele() {
77
78         for (Entry<Integer, String> entry : Kitap.entrySet()) { // for each ile yapildi...Entry class i...
79             System.out.println("No = " + entry.getKey() + ", Kitap Bilgileri= " + entry.getValue());
80         }
81     }
82
83     private static void noIleSil() {
84         // TODO Auto-generated method stub
85     }
86
87     private static void bilgiIleGoruntule() {
88
89         scan.nextLine();
90         System.out.println("Hangi bilgi ile goruntuleme yapmak istiyorsunuz");
91         String bilgi = scan.nextLine();
92
93         int flag = 0;
94
95         for (Entry<Integer, String> entry : kitap.entrySet()) {
96             if (entry.getValue().contains(bilgi)) {
97
98                 System.out.println("No = " + entry.getKey() + ", Kitap Bilgileri= " + entry.getValue());
99                 flag = 1;
100            }
101        }
102    }

```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (a minute ago) 21:97 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr12.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr12 > main

Project Commit Pull Requests Bookmarks Structure

Pr03.java X Pr04.java X Pr05.java X Pr06.java X Pr07.java X Pr08.java X Pr09.java X Pr10.java X Pr11.java X Pr12.java X

Notifications Run

```
> Pratik16_Constructor 103
> Pratik17_Encapsulation 104
> Pratik18_Inheritance 105
> Pratik19_Override 106
> Pratik20_Exceptions 107
> Pratik21_Abstract 108
> Pratik22_Interface 109
> Pratik23_Iterator 110
> Pratik24_Set_HashSet 111
> Pratik25_Queue_Deque 112
> Pratik26_Maps 113
  > HashtableMethods 114
  > MapsMethods 115
  > Pr01 116
  > Pr02 117
  > Pr03 118
  > Pr04 119
  > Pr05 120
  > Pr06 121
  > Pr07 122
  > Pr08 123
  > Pr09 124
  > Pr10 125
  > Pr11 126
  > Pr12 127
  > TreeMapMethods 128
> Pratik27_StringManipulation 129
> Pratik28_StringBuilder 130
> Pratik29_DateTime 131
> Pratik30_Random 132

```

103
104
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131
132
133
134
135

if (flag == 0) {
 System.out.println("aradiginiz kriterde uygun kitap bulunamadi");
}
menu();
}
private static void kitapEkle() {
 // TODO Auto-generated method stub
}
public static void noIleGoruntule() {
 System.out.println("listelemek istediginiz kitap numarasini girin");
 int kitapNo = scan.nextInt();
 System.out.println(kitap.get(kitapNo));
}
public static void topluKitapEkle() {
 kitap.put(9999, "ali can evde, ali han, 2001, 11");
 kitap.put(9998, "ali can yolda, ali han, 2005, 10");
 kitap.put(9997, "yanlizlik, Veli Kul, 2005, 21");
 kitap.put(9996, "Sen, Ayse Unal, 2005, 30");
}

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File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr12.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik26_Maps > Pr12 > menu

Project Commit Pull Requests Bookmarks Structure

Pr... Pr09.java Pr10.java Pr11.java Pr12.java Pr12

Run: Pr12

1-Kitap ekle
2-Numara ile kitap goruntule
3-Bilgi ile kitap goruntule
4-Numara ile kitap sil
5-Tum kitaplari liste
6-Cikis
Hangi islemi yapmak istiyorsunuz
5
No = 9996, Kitap Bilgileri= Sen, Ayse Unal, 2005, 30
No = 9997, Kitap Bilgileri= yanlizlik, Veli Kul, 2005, 21
No = 9998, Kitap Bilgileri= ali can yolda, ali han, 2005, 10
No = 9999, Kitap Bilgileri= ali can evde, ali han, 2001, 11

Process finished with exit code 0

```
74 }  
75 }  
76 }  
77 public static void listele() {  
78     for (Entry<Integer, String> entry : kitap.entrySet()) { // for  
79         System.out.println("No = " + entry.getKey() + ", Kitap Bilgileri= " + entry.getValue());  
80     }  
81 }  
82 }  
83 }  
84 private static void noIleSil() {  
85     // TODO Auto-generated method stub  
86 }  
87 }  
88 }  
89 private static void bilgiIleGoruntule() {  
90     scan.nextLine();  
91     System.out.println("Hangi bilgi ile goruntuleme yapmak istiyorsunuz");  
92     String bilgi = scan.nextLine();  
93     int flag = 0;  
94     for (Entry<Integer, String> entry : kitap.entrySet()) {  
95         if (entry.getValue().contains(bilgi)) {  
96             System.out.println("No = " + entry.getKey() + ", Kitap Bilgileri= " + entry.getValue());  
97             flag = 1;  
98         }  
99     }  
100    if (flag == 0) {  
101        System.out.println("Aradiginiz kriterde uygun kitap bulunamadi");  
102    }  
103 }  
104 }  
105 }  
106 }  
107 }  
108 }
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago)

16:1 CRLF windows-1254 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C00_StringManipulation00.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day10_stringManipulations > C00_StringManipulation00 > main

Project Commit Pull Requests Bookmarks Structure

4.java < C05_SwitchCase05.java < C06_StringManipulation01.java < C00_StringManipulation00.java < Run: C01_SwitchCase01 < C00_StringManipulation00

```
4.java
public static void main(String[] args) {
    // str adinda bir degiskene "Merhaba Arkadaslar" yazisini atmis olglim...
    String str = "Merhaba Arkadaslar";
    // 1. si concatenation(); birlestirme
    String str1 = "Hosgeldiniz";
    // concatenation methodu 2 sekilde yapilir.
    // Birincisi toplama isaretiyle
    // ikincisi ise concat methodu
    System.out.println("1-Concat 1. methodu ; " + str + " " + str1);
    // 1.method--> Merhaba Arkadaslar Hosgeldiniz
    System.out.println(str.concat(str1)); // Merhaba ArkadaslarHosgeldiniz
    System.out.println("1-Concat 2. methodu ; " + str.concat( str + " ").concat(str1));
    // 2.method--> Merhaba Arkadaslar Hosgeldiniz
    // 2. si charAt(); karakter
    System.out.println("2-Char methodu ile : " + str.charAt(5)); // b
    // 3. sutoUpperCase(); buyuk harf
    System.out.println("3-toUpperCase methodu ile : " + str.toUpperCase() + " " + str1.toUpperCase());
    // 3-toUpperCase methodu ile : MERHABA ARKADASLAR HOSGELDINIZ
}
```

Run: C01_SwitchCase01 < C00_StringManipulation00

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IDEA Community Edition\lib\idea_rt.jar" -Dfile.encoding=UTF-8 -jar C:\Users\HP\IdeaProjects\Java2021allfiles\target\Java2021allfiles-0.1-SNAPSHOT.jar

1-Concat 1. methodu ; Merhaba Arkadaslar Hosgeldiniz
Merhaba ArkadaslarHosgeldiniz
1-Concat 2. methodu ; Merhaba Arkadaslar Hosgeldiniz
2-Char methodu ile : b
3-toUpperCase methodu ile : MERHABA ARKADASLAR HOSGELDINIZ
4-toLowerCase methodu ile : merhaba arkadaslar hosgeldiniz
5>equals methodu ile : false
6>equalsIgnoreCase methodu ile : false
6>equalsIgnoreCase methodu ile : true
7-length methodu ile : 18
8-indexOf methodu ile : 3
8-indexOf methodu ile : -1
9-lastIndexOf methodu ile : 10
9-lastIndexOf methodu ile : -1
9-lastIndexOf methodu ile : 4
9-lastIndexOf methodu ile : 8
10-contains methodu ile : true
11-endsWith methodu ile : false
11-endsWith methodu ile : true
12-startsWith methodu ile : true
12-startsWith methodu ile : true
12-startsWith methodu ile : false
13-isEmpty methodu ile : false
13-isEmpty methodu ile : true
14-replace methodu ile : jxxxxxxxxxxxxx09 ile bir kere yxxxxxxz hep cxxxxxxlistir
14-replace methodu ile : jvx09 ile bir kere yxz hep cxlistir
15-replaceAll methodu ile : jxxxxxxxxxxxxx09 ile bir kere yxxxxxxz hep cxxxxxxlistir
15-replaceAll methodu ile : java09ilebirkereyazhepcalistir
15-replaceAll methodu ile : java09*ile*bir*kere*yaz*hepcalistir
15-replaceAll methodu ile : ***** *** *** *** *** *****
15-replaceAll methodu ile : -----
15-replaceAll methodu ile : java09#ile#bir#kere#yaz#hepcalistir
15-replaceAll methodu ile : java** ile bir kere yaz hep calistir
15-replaceAll methodu ile : aaaa09aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa

Git TODO Problems Terminal Services Build

Build completed successfully in 4 sec, 963 ms (2 minutes ago)

39:9 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C00_StringManipulation00.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day10_stringManipulations > C00_StringManipulation00 > main

Project Commit Pull Requests Bookmarks Structure

4.java × C05_SwitchCase05.java × C06_StringManipulation01.java × C00_StringManipulation00.java × Run: C01_SwitchCase01 × C00_StringManipulation00 ×

12 244

```
//  
// 4. su toLowerCase(); kucuk harf  
System.out.println("4-toLowerCase methodu ile : " + str.toLowerCase() + " " + str1.toLowerCase());  
// 4-toLowerCase methodu ile : merhaba arkadaslar hosgeldiniz  
  
//  
// 5. si equals(); string e esit olup olmadigini true ve false olarak dondurur.  
System.out.println("5-equals methodu ile : " + str.equals(str1)); // false  
  
//  
// 6. si equalsIgnoreCase(); buyuk kucuk harf bakiyetsizin esitligini true ve false olarak dondurur.  
System.out.println("6-equalsIgnoreCase methodu ile : " + str.equalsIgnoreCase(str1)); // false  
  
String str2 = "HosGELdiniz";  
System.out.println("6-equalsIgnoreCase methodu ile : " + str1.equalsIgnoreCase(str2)); // true  
  
//  
// 7. si length(); uzunlugu belirler  
System.out.println("7-length methodu ile : " + str.length()); // 18  
  
//  
// 8. si indexOf(); 0 dan baslar ve bize string in indexini verir  
System.out.println("8-indexOf methodu ile : " + str1.indexOf('g')); // 3  
  
// olmayan bir karakter girersem cevap ne olur ?  
System.out.println("8-indexOf methodu ile : " + str1.indexOf('b')) // -1 olur  
//
```

4-toLowerCase methodu ile : merhaba arkadaslar hosgeldiniz
5>equals methodu ile : false
6>equalsIgnoreCase methodu ile : false
6>equalsIgnoreCase methodu ile : true
7-length methodu ile : 18
8-indexOf methodu ile : 3
8-indexOf methodu ile : -1
9-lastIndexof methodu ile : 10
9-lastIndexof methodu ile : -1
9-lastIndexof methodu ile : 4
9-lastIndexof methodu ile : 8
10-contains methodu ile : true
11-endsWith methodu ile : false
11-endsWith methodu ile : true
12-startsWith methodu ile : true
12-startsWith methodu ile : true
12-startsWith methodu ile : false
13-isEmpty methodu ile : false
13-isEmpty methodu ile : true
14-replace methodu ile : jxxxxxxxxxxxxx09 ile bir kere yxxxxxx hep cxxxxxxlistir
14-replace methodu ile : jxvx09 ile bir kere yxz hep cxlistir
15-replaceAll methodu ile : jxxxxxxxxxxxxx09 ile bir kere yxxxxxx hep cxxxxxxlistir
15-replaceAll methodu ile : java09ilebirkereyazhepcalistir
15-replaceAll methodu ile : java09*ile*bir*kere*yaz*hepcalistir
15-replaceAll methodu ile : ***** *** *** *** *** *****
15-replaceAll methodu ile : ----- -----
15-replaceAll methodu ile : java09#ile#bir#kere#yaz#hepcalistir
15-replaceAll methodu ile : java** ile bir kere yaz hep calistir
15-replaceAll methodu ile : aaaa09aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
16-replaceFirst methodu ile : j***va09 ile bir kere yaz hep calistir
16-replaceFirst methodu ile : java09*ile bir kere yaz hep calistir
17-substring methodu ile : java09
17-substring methodu ile : ile bir kere yaz hep calistir
18-trim methodu ile : ahhh java ahhh

Git TODO Problems Terminal Services Build

Build completed successfully in 4 sec, 963 ms (4 minutes ago) 19:32 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C00_StringManipulation00.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day10_stringManipulations > C00_StringManipulation00 > main

Project Commit Pull Requests Bookmarks Structure

4.java < C05_SwitchCase05.java < C06_StringManipulation01.java < C00_StringManipulation00.java < Run: C01_SwitchCase01 < C00_StringManipulation00

12 244

```
// 9. su lastIndexOf(); bize string in son indexini dondurur
System.out.println("9-lastIndexOf methodu ile : " + str1.lastIndexOf( ch: 'z' )); // 10

// olmayan bir karakter girersem cevap ne olur ?
System.out.println("9-lastIndexOf methodu ile : " + str1.lastIndexOf( ch: 't' )); // -1

// belirli bir indexten oncesi de sorgulanabilir
System.out.println("9-lastIndexOf methodu ile : " + str1.lastIndexOf( ch: 'a', fromIndex: 5 )); // 4

// kelime de sorgulanabilir
System.out.println("9-lastIndexOf methodu ile : " + str1.lastIndexOf( str: "Arkadaslar" )); // 8

// 10. su contains(); icerip icermedigini true ve false olarak dondurur.
System.out.println("10-contains methodu ile : " + str1.contains("d" )); // true

// 11. si endsWith(); istenen karakterler ile bitip bitmediğini kontrol eder..
String str3 = "java09 ile bir kere yaz hep calistir";

System.out.println("11-endsWith methodu ile : " + str3.endsWith("cal" )); // false
System.out.println("11-endsWith methodu ile : " + str3.endsWith("tir" )); // true

// 12. si startsWith(); istenen karakterler ile baslayip basmadigini kontrol eder..
System.out.println("12-startsWith methodu ile : " + str3.startsWith("ja" )); // true
System.out.println("12-startsWith methodu ile : " + str3.startsWith( prefix: "a", toffset: 3 )); // true
System.out.println("12-startsWith methodu ile : " + str3.startsWith( prefix: "t", toffset: 3 )); // false
```

4-toLowerCase methodu ile : merhaba arkadaslar hosgeldiniz
5-equals methodu ile : false
6>equalsIgnoreCase methodu ile : false
6>equalsIgnoreCase methodu ile : true
7-length methodu ile : 18
8-indexOf methodu ile : 3
8-indexOf methodu ile : -1
9-lastIndexOf methodu ile : 10
9-lastIndexOf methodu ile : -1
9-lastIndexOf methodu ile : 4
9-lastIndexOf methodu ile : 8
10-contains methodu ile : true
11-endsWith methodu ile : false
11-endsWith methodu ile : true
12-startsWith methodu ile : true
12-startsWith methodu ile : true
12-startsWith methodu ile : false
13-isEmpty methodu ile : false
13-isEmpty methodu ile : true
14-replace methodu ile : jxxxxxxxxxxxxx09 ile bir kere yxxxxxx hep cxxxxxxlistir
14-replace methodu ile : jxvx09 ile bir kere yxz hep cxlistir
15-replaceAll methodu ile : jxxxxxxxxxxxxx09 ile bir kere yxxxxxx hep cxxxxxxlistir
15-replaceAll methodu ile : java09ilebirkereyazhepcalistir
15-replaceAll methodu ile : java09*ile*bir*kere*yaz*hepcalistir
15-replaceAll methodu ile : ***** *** *** *** *** **** ****
15-replaceAll methodu ile : -----
15-replaceAll methodu ile : java09#ile#bir#kere#yaz#hep#calistir
15-replaceAll methodu ile : java** ile bir kere yaz hep calistir
15-replaceAll methodu ile : aaaa09aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
16-replaceFirst methodu ile : j***va09 ile bir kere yaz hep calistir
16-replaceFirst methodu ile : java09*ile bir kere yaz hep calistir
17-substring methodu ile : java09
17-substring methodu ile : ile bir kere yaz hep calistir
18-trim methodu ile : ahhh java ahhh

Git TODO Problems Terminal Services Build

Build completed successfully in 4 sec, 963 ms (4 minutes ago)

23:34 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C00_StringManipulation00.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day10_stringManipulations > C00_StringManipulation00 > main

Project Commit Pull Requests Bookmarks Structure

4.java × C05_SwitchCase05.java × C06_StringManipulation01.java × C00_StringManipulation00.java × Run: C01_SwitchCase01 × C00_StringManipulation00 ×

```
// 13. su isEmpty(); String in uzunlugu "0" ise true yoksa false dondurur.  
System.out.println("13-isEmpty methodu ile : " + str3.isEmpty()); // false  
  
String str4 = "";  
System.out.println("13-isEmpty methodu ile : " + str4.isEmpty()); // true  
// --> null yazarsak hata verir.  
  
// 14. su replace(); istenen karakterleri yenileri ile degistirir...  
System.out.println("14-replace methodu ile : " + str3.replace( target: "a", replacement: "xxxxxx"));  
// jxxxxxxxxxxxxx09 ile bir kere yxxxxxx hep cxxxxxxlistir  
  
System.out.println("14-replace methodu ile : " + str3.replace( oldChar: 'a', newChar: 'x'));  
// jxvx09 ile bir kere yxz hep cxlistir  
  
// 15. si replaceAll(); replace den tek farki char kullanamaz ama regular expression kullanabilir.  
// 15. si replaceAll(); replace den tek farki char kullanamaz ama regular expression kullanabilir.
```

Run: C01_SwitchCase01 × C00_StringManipulation00 ×

6-equalsIgnoreCase methodu ile : true
7-length methodu ile : 18
8-indexOf methodu ile : 3
8-indexOf methodu ile : -1
9-lastIndexOf methodu ile : 10
9-lastIndexOf methodu ile : -1
9-lastIndexOf methodu ile : 4
9-lastIndexOf methodu ile : 8
10-contains methodu ile : true
11-endsWith methodu ile : false
11-endsWith methodu ile : true
12-startsWith methodu ile : true
12-startsWith methodu ile : true
12-startsWith methodu ile : false
13-isEmpty methodu ile : false
13-isEmpty methodu ile : true
14-replace methodu ile : jxxxxxxxxxxxxx09 ile bir kere yxxxxxx hep cxxxxxxlistir
14-replace methodu ile : jxvx09 ile bir kere yxz hep cxlistir
15-replaceAll methodu ile : jxxxxxxxxxxxxx09 ile bir kere yxxxxxx hep cxxxxxxlistir
15-replaceAll methodu ile : java09ilebirkereyazhepcalistir
15-replaceAll methodu ile : java09*ile*bir*kere*yaz*hep*calistikir
15-replaceAll methodu ile : ***** *** *** **** *** *****
15-replaceAll methodu ile : ----- ----- -----
15-replaceAll methodu ile : java09#ile#bir#kere#yaz#hep#calistikir
15-replaceAll methodu ile : java** ile bir kere yaz hep calistikir
15-replaceAll methodu ile : aaaa09aaaaaaaaaaaaaaaaaaaaaaaaaaaa
16-replaceFirst methodu ile : j***va09 ile bir kere yaz hep calistikir
16-replaceFirst methodu ile : java09*ile bir kere yaz hep calistikir
17-substring methodu ile : java09
17-substring methodu ile : ile bir kere yaz hep calistikir
18-trim methodu ile : ahhh java ahhh

Process finished with exit code 0

Git TODO Problems Terminal Services Build

Build completed successfully in 4 sec, 963 ms (7 minutes ago)

126:9 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C00_StringManipulation00.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day10_stringManipulations > C00_StringManipulation00 > main

Project Commit Pull Requests Bookmarks Structure

4.java C05_SwitchCase05.java C06_StringManipulation01.java C00_StringManipulation00.java

Run: C01_SwitchCase01 C00_StringManipulation00

Notifications Run

```
// 15. si replaceAll(); replace den tek farki char kullanamaz ama regular expression kullanabilir.  
System.out.println("15-replaceAll methodu ile : " + str3.replaceAll( regex: "a", replacement: "xxxxxx"));  
// jxxxxxxxxxxxxx09 ile bir kere yxxxxxxz hep cxxxxxxlistir  
  
// System.out.println("15-replaceAll methodu ile : " + str3.replaceAll('a' , 'x')); hata veric  
  
System.out.println("15-replaceAll methodu ile : " + str3.replaceAll( regex: "\\s", replacement: ""));  
// s sadece space---java09ilebirkereyazhepcalistir  
System.out.println("15-replaceAll methodu ile : " + str3.replaceAll( regex: "\\s", replacement: "*"));  
// s sadece space---java09ile#bir#kere#yaz#hep#calistir  
System.out.println("15-replaceAll methodu ile : " + str3.replaceAll( regex: "\\S", replacement: "*"));  
// S space olmayan hersey---***** *** *** *** *** *****  
System.out.println("15-replaceAll methodu ile : " + str3.replaceAll( regex: "\\w", replacement: "-"));  
// harf veya rakamlarin hepsi-----  
System.out.println("15-replaceAll methodu ile : " + str3.replaceAll( regex: "\\W", replacement: "#"));  
// harf veya rakamlarin disindaki hersey---java09#ile#bir#kere#yaz#hep#calistir  
System.out.println("15-replaceAll methodu ile : " + str3.replaceAll( regex: "\\d", replacement: "*"));  
// digit(rakamlar)in hepsi---java** ile bir kere yaz hep calistir  
System.out.println("15-replaceAll methodu ile : " + str3.replaceAll( regex: "\\D", replacement: "a"));  
// digit(rakamlar)in disindaki hersey---aaaa09aaaaaaaaaaaaaaaaaaaaaaa  
  
// not ; sys0 icinde yapılan manipulation'lar asil String'i degistirmez  
  
//  
  
// 16. si replaceFirst(); istenen karakterlerin ilkini yenileriyle degistirir.  
System.out.println("16-replaceFirst methodu ile : " + str3.replaceFirst( regex: "a", replacement: "***"));  
// j***va09 ile bir kere yaz hep calistir  
  
System.out.println("16-replaceFirst methodu ile : " + str3.replaceFirst( regex: "\\s", replacement: "*"));  
// java09ile bir kere yaz hep calistir
```

6-equalsIgnoreCase methodu ile : true
7-length methodu ile : 18
8-indexOf methodu ile : 3
8-indexOf methodu ile : -1
9-lastIndexOf methodu ile : 10
9-lastIndexOf methodu ile : -1
9-lastIndexOf methodu ile : 4
9-lastIndexOf methodu ile : 8
10-contains methodu ile : true
11-endsWith methodu ile : false
11-endsWith methodu ile : true
12-startsWith methodu ile : true
12-startsWith methodu ile : true
12-startsWith methodu ile : false
13-isEmpty methodu ile : false
13-isEmpty methodu ile : true
14-replace methodu ile : jxxxxxxxxxxxxx09 ile bir kere yxxxxxxz hep cxxxxxxlistir
14-replace methodu ile : jxvx09 ile bir kere yxz hep cxlistir
15-replaceAll methodu ile : jxxxxxxxxxxxxx09 ile bir kere yxxxxxxz hep cxxxxxxlistir
15-replaceAll methodu ile : java09ilebirkereyazhepcalistir
15-replaceAll methodu ile : java09#ile#bir#kere#yaz#hep#calistir
15-replaceAll methodu ile : ***** *** *** *** *** *****
15-replaceAll methodu ile : -----
15-replaceAll methodu ile : java09#ile#bir#kere#yaz#hep#calistir
15-replaceAll methodu ile : java** ile bir kere yaz hep calistir
15-replaceAll methodu ile : aaaa09aaaaaaaaaaaaaaaaaaaaaaaaaaaa
16-replaceFirst methodu ile : j***va09 ile bir kere yaz hep calistir
16-replaceFirst methodu ile : java09*ile bir kere yaz hep calistir
17-substring methodu ile : java09
17-substring methodu ile : ile bir kere yaz hep calistir
18-trim methodu ile : ahhh java ahhh

Process finished with exit code 0

Git TODO Problems Terminal Services Build

Build completed successfully in 4 sec, 963 ms (7 minutes ago)

124:1 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C00_StringManipulation00.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day10_stringManipulations > C00_StringManipulation00

Project Commit Pull Requests Bookmarks Structure

4.java × C05_SwitchCase05.java × C06_StringManipulation01.java × C00_StringManipulation00.java × Run: C01_SwitchCase01 × C00_StringManipulation00 ×

171 //
172 // 17.si substring(); index kullanarak String deki istedigimiz parçayı almaya yardımcı olur.
173 System.out.println("17-substring methodu ile : " + str3.substring(0, 7)); // java09
174 // 0.index dahil alır 7.indexi dahil etmeden karakter boşluk ne varsa keser alır
175
176 System.out.println("17-substring methodu ile : " + str3.substring(6, str3.length()));
177 // _ ile bir kere yaz hep calistir
178
179 //
180 // 18. si trim(); istedigimiz String'in başında veya sonunda var olan boşluk/space'leri temizler.
181 String str5 = " ahhh java ahhh ";
182 System.out.println("18-trim methodu ile : " + str5.trim()); // ghhh java ahhh
183
184 }
185
186
187 }
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204

Run: C01_SwitchCase01 × C00_StringManipulation00 ×

6-equalsIgnoreCase methodu ile : true
7-length methodu ile : 18
8-indexOf methodu ile : 3
8-indexOf methodu ile : -1
9-lastIndexOf methodu ile : 10
9-lastIndexOf methodu ile : -1
9-lastIndexOf methodu ile : 4
9-lastIndexOf methodu ile : 8
10-contains methodu ile : true
11-endsWith methodu ile : false
11-endsWith methodu ile : true
12-startsWith methodu ile : true
12-startsWith methodu ile : true
12-startsWith methodu ile : false
13-isEmpty methodu ile : false
13-isEmpty methodu ile : true
14-replace methodu ile : jxxxxxxxxxxxxx09 ile bir kere yxxxxxx hep cxxxxxxlistir
14-replace methodu ile : jxvx09 ile bir kere yxz hep cxlistir
15-replaceAll methodu ile : jxxxxxxxxxxxxx09 ile bir kere yxxxxxx hep cxxxxxxlistir
15-replaceAll methodu ile : java09ilebirkereyazhepcalistir
15-replaceAll methodu ile : java09*ile*bir*kere*yaz*hep#calistir
15-replaceAll methodu ile : ***** *** *** **** *** *****
15-replaceAll methodu ile : ----- ----- -----
15-replaceAll methodu ile : java09#ile#bir#kere#yaz#hep#calistir
15-replaceAll methodu ile : java** ile bir kere yaz hep calistir
15-replaceAll methodu ile : aaaa09aaaaaaaaaaaaaaaaaaaaaaaaaaaa
16-replaceFirst methodu ile : j***va09 ile bir kere yaz hep calistir
16-replaceFirst methodu ile : java09*ile bir kere yaz hep calistir
17-substring methodu ile : java09
17-substring methodu ile : ile bir kere yaz hep calistir
18-trim methodu ile : ahhh java ahhh

Process finished with exit code 0

Git TODO Problems Terminal Services Build

Build completed successfully in 4 sec, 963 ms (9 minutes ago)

204:1 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C01_StringBuilder01.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day32_StringBuilder > C01_StringBuilder01 > main

Project Commit Pull Requests Bookmarks Structure

C01_StringBuilder01.java C01_LocalDate.java C02_Varargs01.java C04_Varargs03.java C05_V ... Run: C01_StringBuilder01 Notifications

```
1 package CoreJavaDay50.day32_StringBuilder;
2
3 public class C01_StringBuilder01 {
4
5     public static void main(String[] args) {
6
7         // *****STRING BUILDER METHODLARI*****
8
9         StringBuilder sb1 = new StringBuilder("Rumeysa");
10        System.out.println("ilk Durum : " + sb1); // Rumeysa
11
12        // -----
13        // 1.Method --> append(); String Builder a ekleme yapar... Ekleme sonda yapar...
14
15        sb1.append(" Cetinturk"); // --> bu sekilde yazdiririz.
16        // sb1.append(" ").append("Cetinturk");--> istersek te bu sekilde
17        // Not ; yukarıda yazılan iki sekilde aynışını yazdırır.
18        System.out.println("1.Method append : " + sb1); // Rumeysa Cetinturk
19
20        // append(); in iki özelliği var.
21        // Bir tanesi direk birlestirme concat gibi...
22        // Digeri de substring de olduğu gibi aralığı olarak ekleme yapabiliriz...
23
24        sb1.append( "Javayı çok sever", start 6, end 10);
25        // 6 7 8 ve 9. indexleri birleştirir. 10 u almaz..
26        System.out.println("1.Method append : " + sb1); // Rumeysa Cetinturk çok
27
28        // -----
29        // 2.Method --> length(); SB nin uzunluğunu verir...
30
31        System.out.println("2.Method length : " + sb1.length()); // 21
32
33        // -----
34        // devamı diğer sayfada
35    }
}
```

C:\Users\HP\jdk\openjdk-18.0.2\bin\java.exe "-java" ilk Durum : Rumeysa
1.Method append : Rumeysa Cetinturk
1.Method append : Rumeysa Cetinturk çok
2.Method length : 21
3.Method capacity : 23
2.Method length : 21
3.Method capacity : 23
4.Method trimToSize : 21
5.Method charAt : u
6.Method delete : Rumeysa Cetinturk
7.Method deleteCharAt : Rumeysa Cetinturk
8.Method equals : false
8.Method : false
8.Method : true
9.Method indexOf : 8
9.Method indexOf : 9
10.Method lastIndexOf : 13
10.Method lastIndexOf : 6
11.Method insert : Ru*meysa Cetinturk
11.Method insert : Merhaba Ru*meysa Cetinturk
12.Method replace : Merhaba Sehersa Cetinturk
13.Method reverse : rutnitéC asreheS abahreM
Duzenlenen reverse : Merhaba Sehersa Cetinturk
14.Method setCharAt : Merhaba Sekersa Cetinturk
15.Method subSequence : Seker
SubString Methodu : Sekersa Cetinturk
15.Method subSequence : ba Sekersa Cetinturk
Son Durum : false
16.Method toString : true
17:Method compareTo : 0
17:Method compareTo : 8

Process finished with exit code 0

Git TODO Problems Terminal Services Build

Typo: In word 'sayfada'

34:32 CRLF UTF-8 Tab* master

The screenshot shows the IntelliJ IDEA interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - C01_StringBuilder01.java [Java2021allfiles]
- Project Tree:** Java2021allfiles > src > CoreJavaDay50 > day32_StringBuilder > C01_StringBuilder01
- Code Editor:** The file C01_StringBuilder01.java is open, showing code related to the StringBuilder class. The code includes various methods like capacity(), length(), trimToSize(), charAt(), and delete(). It also includes comments in Turkish explaining the methods' behaviors.
- Run Tab:** The run configuration for C01_StringBuilder01 is selected. The command is set to "C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe" -java".
- Output Log:** The right side shows the execution log with 11 errors and 348 warnings. The log output is as follows:

```
C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe" -java
ilk Durum : Rumeysa
1.Method append : Rumeysa Cetinturk
1.Method append : Rumeysa Cetinturk çok
2.Method length : 21
3.Method capacity : 23
2.Method length : 21
3.Method capacity : 23
4.Method trimToSize : 21
5.Method charAt : u
6.Method delete : Rumeysa Cetinturk
7.Method deleteCharAt : Rumeysa Cetintur
8.Method equals : false
8.Method : false
8.Method : false
8.Method : true
9.Method indexOf : 8
9.Method indexOf : 9
10.Method lastIndexOf : 13
10.Method lastIndexOf : 6
11.Method insert : Ru*meysa Cetintur
11.Method insert : Merhaba Ru*meysa Cetintur
12.Method replace : Merhaba Sehersa Cetintur
13.Method reverse : rutnitezC asreheS abahreM
Duzenlenen reverse : Merhaba Sehersa Cetintur
14.Method setCharAt : Merhaba Sekersa Cetintur
15.Method subSequence : Seker
SubString Methodu : Sekersa Cetintur
15.Method subSequence : ba Sekersa Cetintur
Son Durum : false
16.Method toString : true
17:Method compareTo : 0
17:Method compareTo : 8

Process finished with exit code 0
```

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C01_StringBuilder01.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day32_StringBuilder > C01_StringBuilder01 > main

Project Commit Pull Requests Bookmarks Structure

C01_StringBuilder01.java C01_LocalDate.java C02_Varargs01.java C04_Varargs03.java C05_V

Run: C01_StringBuilder01

Notifications

11 348

```
//  
// 7.Method --> deleteCharAt(index); Belirlenen karakteri silme Methodu  
sb1.deleteCharAt( index: 16);  
System.out.println("7.Method deleteCharAt : " + sb1); // Rumeysa Cetintur -->k silindi  
  
//  
// 8.Method --> equals(); esitlik halinde true gksi halde false veric...  
  
String isim = "Rumeysa Cetintur";  
System.out.println("8.Method equals : " + sb1.equals(isim)); // false  
// Normal de esitligi saglayin true verir. Fakat ;  
// data turleri farkli oldugu icin kiyas mumkun degil ve hep false verir burda..  
// guni obje olursa true verir...  
  
StringBuilder sb2 = new StringBuilder("Rumeysa Cetintur");  
  
System.out.println("8.Method : " + (sb1 == sb2)); // false... burda da gormus olduk...  
System.out.println("8.Method : " + sb1.equals(sb2)); // false  
System.out.println("8.Method : " + sb1.equals(sb1)); // true ancak burda true aliriz.  
  
//  
// 9.Method --> indexOf(); SB de istenen karakterin indexini verir...  
  
sb1.indexOf("Cetin");  
System.out.println("9.Method indexOf : " + sb1.indexOf("Cetin")); // 8  
// 8 nasil oldu... Rumeysa Cetintur dan "Rumeysa_C" den 8 olur.  
// Cetin diye sorugladigimiz 1 karakter olarak indexini verdi. // 8  
System.out.println("9.Method indexOf : " + sb1.indexOf( str: "e", fromIndex: 6)); // 9  
// Bu da soyle bulunuyor.. 6. indexten sonraki e harfinin index i nedir ? // 9  
  
//  
  
// devamı diğer sayfada
```

C:\Users\HP\jdk8\bin\java.exe "-javailk Durum : Rumeysa
1.Method append : Rumeysa Cetintur
1.Method append : Rumeysa Cetintur cok
2.Method length : 21
3.Method capacity : 23
2.Method length : 21
3.Method capacity : 23
4.Method trimToSize : 21
5.Method charAt : u
6.Method delete : Rumeysa Cetintur
7.Method deleteCharAt : Rumeysa Cetintur
8.Method equals : false
8.Method : false
8.Method : false
8.Method : true
9.Method indexOf : 8
9.Method indexOf : 9
10.Method lastIndexOf : 13
10.Method lastIndexOf : 6
11.Method insert : Ru*meysa Cetintur
11.Method insert : Merhaba Ru*meysa Cetintur
12.Method replace : Merhaba Sehersa Cetintur
13.Method reverse : rutnitez asreheS abahrem
Duzenlenen reverse : Merhaba Sehersa Cetintur
14.Method setCharAt : Merhaba Sekersa Cetintur
15.Method subSequence : Seker
SubString Methodu : Sekersa Cetintur
15.Method subSequence : ba Sekersa Cetintur
Son Durum : false
16.Method toString : true
17:Method compareTo : 0
17:Method compareTo : 8

Process finished with exit code 0

Git TODO Problems Terminal Services Build

Build completed successfully in 6 sec, 416 ms (2 minutes ago)

103:9 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C01_StringBuilder01.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day32_StringBuilder > C01_StringBuilder01 > main

Project Commit Pull Requests Bookmarks Structure

C01_StringBuilder01.java C01_LocalDate.java C02_Varargs01.java C04_Varargs03.java C05_V

Run: C01_StringBuilder01

C:\Users\HP\jdk8\openjdk-18.0.2\bin\java.exe "-javailk Durum : Rumeysa
1.Method append : Rumeysa Cetinturk
1.Method append : Rumeysa Cetinturk cok
2.Method length : 21
3.Method capacity : 23
2.Method length : 21
3.Method capacity : 23
4.Method trimToSize : 21
5.Method charAt : u
6.Method delete : Rumeysa Cetinturk
7.Method deleteCharAt : Rumeysa Cetintur
8.Method equals : false
8.Method : false
8.Method : true
9.Method indexOf : 8
9.Method indexOf : 9
10.Method lastIndexOf : 13
10.Method lastIndexOf : 6
11.Method insert : Ru*meysa Cetintur
11.Method insert : Merhaba Ru*meysa Cetintur
12.Method replace : Merhaba Sehersa Cetintur
13.Method reverse : rutnitez asreheS abahreM
Duzenlenen reverse : Merhaba Sehersa Cetintur
14.Method setCharAt : Merhaba Sekersa Cetintur
15.Method subSequence : Seker
SubString Methodu : Sekersa Cetintur
15.Method subSequence : ba Sekersa Cetintur
Son Durum : false
16.Method toString : true
17:Method compareTo : 0
17:Method compareTo : 8

Process finished with exit code 0

// 10.Method --> lastIndexOf(); SB de istenen karakterin son indexini verir.
sb1.lastIndexOf(str: "t");
System.out.println("10.Method lastIndexOf : " + sb1.lastIndexOf(str: "t")); // 13
// Nasil 13 buldu.. "Rumeysa Cetintur" t son olarak tur da geciyor.
// Basitan baslayip son t ye kadar ki index sayilarak bulunur. // 13
System.out.println("10.Method lastIndexOf : " + sb1.lastIndexOf(str: "a", fromIndex: 12)); // 6
// --> 12. index den onceki a nin indexini verir.
// "Rumeysa Cetintur" 12. index n harfi.. oradan geriye sayarak gelirse
// "a" karakterinin indexi 6 olur...

// -----
// 11.Method --> insert(index, string); Yazilan index e istenen karakteri ekler..

System.out.println("11.Method insert : " + sb1.insert(offset: 2, str: "*")); // Ru*meysa Cetintur
// 2.indexin oldugu karakterin yerine silmeden ekleme yapar.
// System.out.println("11.Method insert : " + sb1.insert(4, 3.14));
// Yukarıda 4. indexe 3.14 ekledik.. //--> Ru*m3.14eysa Cetintur

isim = "Merhaba Dunya";

// insert(0, isim, 0, 8) aciklamasi su sekilde
// 0 --> SB nin 0 ince index ten baslar.
// str --> hangi string den eklenecek
// 0 --> cumlenin hangi indexinden baslanacak
// 8 --> bitis index i
System.out.println("11.Method insert : " + sb1.insert(dstOffset: 0, isim, start: 0, end: 8));
// Merhaba Ru*meysa Cetintur yazdirir...

// -----
// devamı diğer sayfada

Git TODO Problems Terminal Services Build

Typo: In word 'sayfada'

131:32 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C01_StringBuilder01.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day32_StringBuilder > C01_StringBuilder01 > main

Project Commit Pull Requests Bookmarks Structure

C01_StringBuilder01.java C01_LocalDate.java C02_Varargs01.java C04_Varargs03.java C05_V C01_StringBuilder01 Run: C01_StringBuilder01 Notifications

```
130 // 12.Method --> replace(); 3 virgülü bu methodun ilki indexi dahil eder
131 // ikincisinin indexini haric tutar araya ucuncusune yerlestirir..
132
133 System.out.println("12.Method replace : " + sb1.replace( start: 8, end: 14, str: "Seher"));
134 // 8 dahil 14 haric indexi siler yazar..
135 // Merhaba Sehersa Cetintur --> Ru*meya nin Ru*mey yerine Seher gelir.
136
137 // -----
138 // 13.Method --> reverse(); SB yi tersine cevirir...
139
140 System.out.println("13.Method reverse : " + sb1.reverse());
141 // rutnите с асреheS abahreM
142 System.out.println("Duzenlenen reverse : " + sb1.reverse()); // Merhaba Sehersa Cetintur
143 // tersine cevirdigimiz Stringi diger methodlarda kullanma adina tekrar basa dondurduk...
144
145 // -----
146 // 14.Method --> setCharAt(); SB de verilen indexi karakter ile degistirir
147 sb1.setCharAt( index: 10, ch: 'k');
148 System.out.println("14.Method setCharAt : " + sb1); // Merhaba Sekersa Cetintur
149
150 // -----
151 // 15.Method --> subSequence(); sub parça demektir. ilk index dahil son index
152 // haric olani alır yazdırır. istedigimiz parçayı indexlerle alırız.
153
154 System.out.println("15.Method subSequence : " + sb1.subSequence(8, 13)); // Seker
155 // Aciklama
156 System.out.println("SubString Methodu : " + sb1.substring( start: 8)); // Sekersa Cetintur
157 // 8 den sonrakileri getirir.
158
159 // Bunu subSequence ile söyle yaparız.
160 // Istedigim indexten sonraki parçanın tamamını almak için dahil olan index yazılır.
161 // Sonra virgülle sb1.length() yazılır.
162 System.out.println("15.Method subSequence : " + sb1.subSequence(5, sb1.length()));
163 // ba Sekersa Cetintur yazdırır.
164
```

C:\Users\HP\jdk\openjdk-18.0.2\bin\java.exe "-javailk Durum : Rumeysa
1.Method append : Rumeysa Cetintur
1.Method append : Rumeysa Cetintur cok
2.Method length : 21
3.Method capacity : 23
2.Method length : 21
3.Method capacity : 23
4.Method trimToSize : 21
5.Method charAt : u
6.Method delete : Rumeysa Cetintur
7.Method deleteCharAt : Rumeysa Cetintur
8.Method equals : false
8.Method : false
8.Method : false
8.Method : true
9.Method indexOf : 8
9.Method indexOf : 9
10.Method lastIndexOf : 13
10.Method lastIndexOf : 6
11.Method insert : Ru*meya Cetintur
11.Method insert : Merhaba Ru*meya Cetintur
12.Method replace : Merhaba Sehersa Cetintur
13.Method reverse : rutnите с асреheS abahreM
Duzenlenen reverse : Merhaba Sehersa Cetintur
14.Method setCharAt : Merhaba Sekersa Cetintur
15.Method subSequence : Seker
SubString Methodu : Sekersa Cetintur
15.Method subSequence : ba Sekersa Cetintur
Son Durum : false
16.Method toString : true
17:Method compareTo : 0
17:Method compareTo : 8

Process finished with exit code 0

Git TODO Problems Terminal Services Build

Typo: In word 'Seker'

155:90 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C01_StringBuilder01.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day32_StringBuilder > C01_StringBuilder01 > main

C01_StringBuilder01.java C01_LocalDate.java C02_Varargs01.java C04_Varargs03.java C05_V C01_StringBuilder01 Run: C01_StringBuilder01 Notifications

Project Commit Pull Requests Bookmarks Structure

C01_StringBuilder01.java

```
165 // -----
166 // 16.Method --> toString(); SB yi Stringe cevirir..
167
168 StringBuilder sb3 = new StringBuilder("Java cok guzel");
169 StringBuilder sb4 = new StringBuilder("Java cok guzel");
170
171 System.out.println("Son Durum : " + sb3.equals(sb4)); // false
172
173 sb3.toString(); // sb3 SB den stringe doneer..
174 sb4.toString(); // sb4 SB den stringe doneer..
175
176 System.out.println("16.Method toString : " + sb3.toString().equals(sb4.toString()));
177 // true
178
179 // -----
180 // 17.Method --> compareTo(); compareTo soyle calisir..
181 // Hakan ile hasan kiyaslar..
182 // ilk index ler i kiyaslar esit ise 0 dir.
183 // a lar esit ise 0 dir.
184 // s ile k esit degil.. k dan s ye kadar olan harfleri sayar..
185 // l m n o p r s ---> 7 sayisini dondurur...
186
187
188 System.out.println("17:Method compareTo : " + sb3.compareTo(sb4)); // 0
189 // sb3 ile sb4 esit oldugu icin sifir verir..
190 System.out.println("17:Method compareTo : " + sb2.compareTo(sb3)); // 8
```

Run: C01_StringBuilder01

C:\Users\HP\jdk8\openjdk-18.0.2\bin\java.exe "-javailk Durum : Rumeysa
1.Method append : Rumeysa Cetinturk
1.Method append : Rumeysa Cetinturk cok
2.Method length : 21
3.Method capacity : 23
2.Method length : 21
3.Method capacity : 23
4.Method trimToSize : 21
5.Method charAt : u
6.Method delete : Rumeysa Cetinturk
7.Method deleteCharAt : Rumeysa Cetintur
8.Method equals : false
8.Method : false
8.Method : false
8.Method : true
9.Method indexOf : 8
9.Method indexOf : 9
10.Method lastIndexOf : 13
10.Method lastIndexOf : 6
11.Method insert : Ru*meysa Cetintur
11.Method insert : Merhaba Ru*meysa Cetintur
12.Method replace : Merhaba Sehersa Cetintur
13.Method reverse : rutnitez asreheS abahreM
Duzenlenen reverse : Merhaba Sehersa Cetintur
14.Method setCharAt : Merhaba Sekersa Cetintur
15.Method subSequence : Seker
SubString Methodu : Sekersa Cetintur
16.Method subSequence : ba Sekersa Cetintur
Son Durum : false
16.Method toString : true
17:Method compareTo : 0
17:Method compareTo : 8

Process finished with exit code 0

Git TODO Problems Terminal Services Build

Typo: In word 'Seker'

155:90 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C01_LocalDate.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day30_DateTime > C01_LocalDate > main

Project Commit Pull Requests Bookmarks Structure

C01_LocalDate.java

```
1 package CoreJavaDay50.day30_DateTime;
2 import java.time.LocalDate;
3 public class C01_LocalDate {
4     public static void main(String[] args) {
5         LocalDate tarih= LocalDate.now();
6         //tarih isiminde obj creat ettik. TRICK : new anahtari kullanilmaz
7         System.out.println("bugunun tarihi : "+tarih);
8
9         System.out.println("bugunden 21 gun sonrasi : "+tarih.plusDays( daysToAdd: 21));
10        System.out.println("bugunden 3 yil sonrasi : " +tarih.plusYears( yearsToAdd: 3));
11        System.out.println("bugunden 3 gun 5 ay 2 yil sonrasi : "
12            +tarih.plusDays( daysToAdd: 3).plusMonths( monthsToAdd: 5).plusYears( yearsToAdd: 2));
13        System.out.println("bugunden 40 gun oncesi : " +tarih.minusDays( daysToSubtract: 40));
14        System.out.println("bugunun 5 yil oncesi 2 ay sonrasi 3 hafta ertesi : "
15            +tarih.minusYears( yearsToSubtract: 5).plusMonths( monthsToAdd: 2).plusWeeks( weeksToAdd: 3));
16
17        /* localDate class ndan uretilen obj method chain kuralina uyan .
18         * ve methodlar ayni (homojen ) olmak zorunda degildir EX:15. satir.. */
19
20        System.out.println(tarih.getDayOfMonth());
21        System.out.println(tarih.getDayOfWeek());
22        System.out.println(tarih.getMonthValue());
23        System.out.println(tarih.getMonth());
24
25        LocalDate dogumGunuDate =LocalDate.of( year: 1974, month: 4, dayOfMonth: 3);
26        System.out.println("dogum tarihi : "+dogumGunuDate);
27        System.out.println("dogum gunu : "+dogumGunuDate.getDayOfWeek());
28
29        System.out.println(tarih.isAfter(dogumGunuDate));
30        System.out.println(dogumGunuDate.isBefore(tarih));
31        System.out.println("bugun artik yil mi : "+tarih.isLeapYear());
32
33    }
34 }
```

Run: C01_LocalDate

```
C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program
bugunun tarihi : 2024-09-23
bugunden 21 gun sonrasi : 2024-10-14
bugunden 3 yil sonrasi : 2027-09-23
bugunden 3 gun 5 ay 2 yil sonrasi : 2027-02-26
bugunden 40 gun oncesi : 2024-08-14
bugunun 5 yil oncesi 2 ay sonrasi 3 hafta ertesi : 2019-12-14
23
MONDAY
9
SEPTEMBER
dogum tarihi : 1974-04-03
dogum gunu : WEDNESDAY
true
true
bugun artik yil mi : true

Process finished with exit code 0
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (2 minutes ago)

19:1 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C001_LocalDate.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day30_DateTime > C001_LocalDate > main

Project Commit Pull Requests Bookmarks Structure

Run: C001_LocalDate

```
1 package CoreJavaDay50.day30_DateTime;
2
3 import java.time.LocalDate;
4
5 public class C001_LocalDate {
6
7     public static void main(String[] args) {
8
9         // -----
10        LocalDate tarih = LocalDate.now();
11        // now su an ki tarihi verir.
12        // new keyword u kullanilmaz..
13
14        System.out.println(tarih); // 2024-09-23
15
16        // -----
17        // plusDay --> gun sonra
18        // plusWeek --> hafta sonra
19        // plusMonths --> ay sonra
20        // plusYears --> yil sonra
21
22        System.out.println(tarih.plusDays( 15)); // 2024-10-08
23        System.out.println(tarih.plusWeeks( 20)); // 2025-02-10
24        System.out.println(tarih.plusMonths( 7)); // 2025-04-23
25        System.out.println(tarih.plusYears( 3)); // 2027-09-23
26
27        // -----
28
29
30
31
32
33
34
35}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8 C:\Users\HP\IdeaProjects\Java2021allfiles\src\CoreJavaDay50\day30_DateTime\C001_LocalDate

2024-09-23
2024-10-08
2025-02-10
2025-04-23
2027-09-23
2024-09-08
2024-05-06
2024-02-23
2021-09-23
2028-09-25
2020-09-21
2027-06-26
true
true
false

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 8 sec, 227 ms (4 minutes ago)

19:1 CRLF UTF-8 Tab* master

The screenshot shows an IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - C001_LocalDate.java [Java2021allfiles].
- Project Tree:** Java_04_ASCIIValueOfCharacter.java, Java_06_SwapTwoNumbers.java, ArrayListMethods.java, C01_LocalDate.java (selected), C001_LocalDate.java.
- Run Tab:** C001_LocalDate (selected).
- Code Editor:** Contains Java code demonstrating LocalDate subtraction and addition methods. The code includes comments in Turkish explaining the methods: `minusDay`, `minusWeek`, `minusMonths`, `minusYears`, `plusDays`, `plusWeeks`, `plusMonths`, and `plusYears`. It also includes a section for leap year calculation using `isLeapYear()`.
- Output Panel:** Shows the command used to run the code (C:\Users\HP\.jdks\openjdk-18.0.2\bin\java) and the resulting output:

```
C:\Users\HP\.jdks\openjdk-18.0.2\bin\java
2024-09-23
2024-10-08
2025-02-10
2025-04-23
2027-09-23
2024-09-08
2024-05-06
2024-02-23
2021-09-23
2028-09-25
2020-09-21
2027-06-26
true
true
false

Process finished with exit code 0
```
- Side Panels:** Project, Commit, Pull Requests, Bookmarks, Structure.
- Bottom Navigation:** Git, Debug, TODO, Problems, Terminal, Services, Build.
- Bottom Status:** Build completed successfully in 8 sec, 227 ms (4 minutes ago).

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C001_LocalDate.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day30_DateTime > C001_LocalDate

Project Commit Pull Requests Bookmarks Structure

Java_04_ASCIIValueOfCharacter.java × Java_06_SwapTwoNumbers.java × ArrayListMethods.java × C01_LocalDate.java × C001_LocalDate.java ×

Run: C001_LocalDate ×

36

```
// -----  
// Kendimiz tarih olusturacak isek ve eski bir tarih olusturacaksak;  
// LocalDate.of() methodu kullanılır.  
  
LocalDate tarih1 = LocalDate.of( year: 1995, month: 12, dayOfMonth: 15);  
LocalDate tarih2 = LocalDate.of( year: 1995, month: 12, dayOfMonth: 10);  
  
// Bu 2 tarihi söyle kıyaslarız..  
// tarih1 tarih2 den sonra mı once mi  
  
System.out.println(tarih1.isAfter(tarih2)); // true  
System.out.println(tarih1.isBefore(tarih2)); // false  
  
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java
2024-09-23
2024-10-08
2025-02-10
2025-04-23
2027-09-23
2024-09-08
2024-05-06
2024-02-23
2021-09-23
2028-09-25
2020-09-21
2027-06-26
true
true
false

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 8 sec, 227 ms (5 minutes ago)

102:1 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C02_LocalTime.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day30_DateTime > C02_LocalTime > main

Project Commit Pull Requests Bookmarks Structure

ArrayListMethods.java C01_LocalDate.java C001_LocalDate.java C02_LocalTime.java Run: C02_LocalTime

```
1 package CoreJavaDay50.day30_DateTime;
2 import ...
3
4 public class C02_LocalTime {
5     public static void main(String[] args) {
6         LocalTime zaman= LocalTime.now();
7         System.out.println("aktuál zaman :" +zaman );//21:34:52.359355
8
9         LocalTime time1 =LocalTime.of( hour: 12, minute: 35, second: 23);
10
11         System.out.println(time1);
12         System.out.println("Bu zamandan 2 saat ileri 34 dk geri 45 sn ileri : "
13             +zaman.plusHours( hoursToAdd: 2).minusMinutes( minutesToSubtract: 34).plusSeconds( secondstoAdd: 45));
14
15         for (int i = 0; i < 10000; i++) {
16             System.out.print(i);
17         }
18         LocalTime zaman2= LocalTime.now();
19         System.out.println();
20         System.out.println(zaman2);
21
22         //ülke saatleri hesaplama:
23         ZonedDateTime baskaUlke=ZonedDateTime.now(ZoneId.of( zoneId: "Europe/Amsterdam"));
24         System.out.println(baskaUlke);
25     }
26
27     day31
28
29 }
30
31 }
```

C:\Users\HP.jdk\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.2.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8 -classpath "C:\Users\HP\IdeaProjects\Java2021allfiles\src\main\java\CoreJavaDay50\day30_DateTime\C02_LocalTime.class" C02_LocalTime

aktuál zaman :22:45:53.569497600
12:35:23
Bu zamandan 2 saat ileri 34 dk geri 45 sn ileri : 00:12:38.569497600
012345678910111213141516171819202122232425262728293031323334353637383940414;
22:45:53.722388200
2024-09-23T21:45:53.729384700+02:00[Europe/Amsterdam]

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 7 sec, 72 ms (a minute ago)

23:26 CRLF UTF-8 Tab* master

The screenshot shows an IDE interface with the following details:

- Top Bar:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help, Java2021allfiles - C002_LocalTime.java [Java2021allfiles]
- Project Explorer:** Shows a tree view of Java files under CoreJavaDay50, including day27_Constru, day28_staticBlo, day29_passByV, day30_DateTim, day31_VarargsS, day32_StringBu, day33_Encapsu, day34_Encapsu, day35_Encapsu, day36_Inheritar, day37_Inheritar, day38_Overridi, day39_Overridi, and day40_Overridi.
- Code Editor:** The main editor window displays the C002_LocalTime.java file. The code uses LocalTime to print current time and perform various time calculations (addition and subtraction of hours, minutes, and seconds).
- Run Tab:** The Run tab shows the output of the program, which includes the current time and the results of the time calculations.
- Bottom Bar:** Git, Debug, TODO, Problems, Terminal, Services, Build.
- Status Bar:** All files are up-to-date (5 minutes ago), 17:1 CRLF UTF-8 Tab*, master.

```
package CoreJavaDay50.day30_DateTime;
import ...
public class C002_LocalTime {

    public static void main(String[] args) {
        // -----
        // ZAMAN

        LocalTime saat = LocalTime.now();
        // now su an ki zamani verir.

        System.out.println(saat); // 22:47:06.495612500

        for (int i = 0; i < 1000000; i++) {
            i += 1;
        }

        // -----
        // plusSeconds ---> saniye sonra
        // plusMinutes ---> dakika sonra
        // plusHours ---> saat sonra

        System.out.println(saat.plusHours( 5)); // 03:47:06.495612500
        System.out.println(saat.plusSeconds( 14593983)); // 20:40:09.495612500
        System.out.println(saat.plusMinutes( 120)); // 00:47:06.495612500

        // -----
        // minusSeconds ---> saniye once
        // minusMinutes ---> dakika once
        // minusHours ---> saat once

        System.out.println(saat.minusHours( 5)); // 17:47:06.495612500
        System.out.println(saat.minusSeconds( 14593983)); // 00:54:03.495612500
        System.out.println(saat.minusMinutes( 120)); // 20:47:06.495612500
    }
}
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java
22:47:06.495612500
03:47:06.495612500
20:40:09.495612500
00:47:06.495612500
17:47:06.495612500
00:54:03.495612500
20:47:06.495612500
23:49:33.495612500
21:44:39.495612500
22:24:39.495612500
22
04:47:06.507606400
14:47:06.511605500

Process finished with exit code 0

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C002_LocalTime.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day30_DateTime > C002_LocalTime

Project Commit Pull Requests Bookmarks Structure

a_06_SwapTwoNumbers.java ArrayListMethods.java C01_LocalDate.java C01_LocalDate.java C02_LocalTime.java C02_LocalTime.java Run: C002_LocalTime

```
37 // -----
38 // Hepsinizi toplu da yazdırabiliriz.
39 System.out.println(saat.plusHours( hoursToAdd: 15).plusMinutes( minutesToAdd: 20).plusSeconds( secondsToAdd: 7897347));
40 // 23:49:33.495612500
41
42 System.out.println(saat.minusHours( hoursToSubtract: 15).minusMinutes( minutesToSubtract: 20).minusSeconds( secondsToSubtract: 7897347));
43 // 21:44:39.495612500
44
45 // Karisikta yazdırabiliriz..
46 System.out.println(saat.minusHours( hoursToSubtract: 15).plusMinutes( minutesToAdd: 20).minusSeconds( secondsToSubtract: 7897347));
47 // 22:24:39.495612500
48
49 // -----
50 // getSeconds getHours ve getMinutes ile de o an ki saat dakika ve saniyeyi
51 // getirebiliriz..
52 System.out.println(saat.getHour()); // 22 ---> su an da saat 3 sadece saatı getirir..
53
54 // -----
55 // Baska ulke saatleri ZoneId methodu ile yapilir..
56
57 System.out.println(saat.now(ZoneId.of( zoneId: "Japan"))); // 04:47:06.507606400
58 System.out.println(saat.now(ZoneId.of( zoneId: "America/Chicago"))); // 14:47:06.511605500
59
60 }
61 }
62
63
64
65
66
67
68
69
70
```

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java
22:47:06.495612500
03:47:06.495612500
20:40:09.495612500
00:47:06.495612500
17:47:06.495612500
00:54:03.495612500
20:47:06.495612500
23:49:33.495612500
21:44:39.495612500
22:24:39.495612500
22
04:47:06.507606400
14:47:06.511605500
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (5 minutes ago) 17:1 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C03_LocalDateTime.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day30_DateTime > C03_LocalDateTime

Project Commit Pull Requests Bookmarks Structure

C001_LocalDateTime.java C02_LocalTime.java C002_LocalTime.java C03_LocalDateTime.java Run: C03_LocalDateTime

```
package CoreJavaDay50.day30_DateTime;
import ...  
public class C03_LocalDateTime {  
    public static void main(String[] args) {  
  
        LocalDateTime ldt=LocalDateTime.now();  
  
        System.out.println("aktual tarih ve zaman : "+ldt);  
        // aktual tarih ve zaman : 2024-09-23T22:53:28.185984300  
  
        LocalDate d=LocalDate.of( year: 2016, month: 1, dayOfMonth: 10);  
        LocalTime t=LocalTime.of( hour: 13, minute: 30);  
  
        LocalDateTime ldt1=LocalDateTime.of(d, t);  
        System.out.println(d); // 2016-01-10  
        System.out.println(t); // 13:30  
        System.out.println(ldt1); // 2016-01-10T13:30  
  
        System.out.println(ldt.getHour()); // 22  
    }  
}
```

Run: C03_LocalDateTime

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\javaagent.jar" -Dfile.encoding=UTF-8 C03_LocalDateTime
aktual tarih ve zaman : 2024-09-23T22:53:28.185984300
2016-01-10
13:30
2016-01-10T13:30
22
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 9 sec, 65 ms (2 minutes ago)

9:1 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C003_LocalDateTime.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day30_DateTime > C003_LocalDateTime > main

Project Commit Pull Requests Bookmarks Structure

LocalTime.java C002_LocalTime.java C03_LocalDateTime.java C003_LocalDateTime.java

Run: C003_LocalDateTime

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.2.1\lib\javaagent.jar" -Dfile.encoding=UTF-8 C:\Users\HP\IdeaProjects\Java2021allfiles\src\CoreJavaDay50\day30_DateTime\C003_LocalDateTime

aktuál tarih ve zaman : 2024-09-23T22:57:03.340944500
2016-01-10
13:30
2016-01-10T13:30
22
2024-09-23T22:57:03.340944500
2024-09-23T22:57:03.340944500
false

Process finished with exit code 0

```
1 package CoreJavaDay50.day30_DateTime;
2 import ...
3
4 public class C003_LocalDateTime {
5
6     public static void main(String[] args) {
7         // -----
8         // TARİH // ZAMAN -
9         LocalDateTime ldt = LocalDateTime.now();
10
11         System.out.println("aktuál tarih ve zaman : " + ldt);
12         // aktúal tarih ve zaman : 2024-09-23T22:57:03.340944500
13
14         LocalDate d = LocalDate.of( year: 2016, month: 1, dayOfMonth: 10 );
15         LocalTime t = LocalTime.of( hour: 13, minute: 30 );
16
17         LocalDateTime ldt1 = LocalDateTime.of(d, t);
18         System.out.println(d); // 2016-01-10
19         System.out.println(t); // 13:30
20         System.out.println(ldt1); // 2016-01-10T13:30
21
22         System.out.println(ldt.getHour()); // 22
23         // -----
24         // Diger detaylarda asagidadir...
25
26         System.out.println(ldt);
27         // 2024-09-23T22:57:03.340944500
28
29         System.out.println(ldt.toString());
30         // 2024-09-23T22:57:03.340944500
31
32         // toString bize manipulation icin lazim olacak. mesela ;
33
34         String time = ldt.toString();
35         System.out.println(time.startsWith("2021")); // false
36     }
37 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 6 sec, 824 ms (a minute ago)

12:1 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C04_DateTimeFormatter.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day30_DateTime > C04_DateTimeFormatter

Project Commit Pull Requests Bookmarks Structure

me.java C03_LocalDateTime.java C003_LocalDateTime.java C04_DateTimeFormatter.java

Run: C04_DateTimeFormatter

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8 C:\Users\HP\IdeaProjects\Java2021allfiles\src\CoreJavaDay50\day30_DateTime\C04_DateTimeFormatter

15/11/20
15/11/20
23/Eyl/24
15\$11\$2020
bugunun tarihi : 2024-09-23
faruk dt :2005-03-05
faruk beyin yasi : P19Y6M18D
19

Process finished with exit code 0

```
package CoreJavaDay50.day30_DateTime;
import ...
public class C04_DateTimeFormatter {
    public static void main(String[] args) {
        LocalDate bugun=LocalDate.now();
        LocalDate date=LocalDate.of( year: 2020, month: 11, dayOfMonth: 15);
        /* yy: YILIN SON iKI RAKAMI
         * yyyy : yilin tamamini
         * y : yilin tamamini
         * M : ay sirasini verir TEMMUZ icin : 7
         * MM: ay sirasiniverir TEMMUZ icin : 07
         * MMM: ay isminin ilkuc harfini verir. JUL
         * MMMM : ay isminin tamamini verir */
        DateTimeFormatter dtf=DateTimeFormatter.ofPattern("dd/M/yy");//15/11/20
        DateTimeFormatter dtf1=DateTimeFormatter.ofPattern("dd/MM/yy");//15/11/20
        DateTimeFormatter dtf2=DateTimeFormatter.ofPattern("dd/MMM/yy");//23/Eyl/24
        DateTimeFormatter dtf3=DateTimeFormatter.ofPattern("dd$M$yyyy");//15$11$2020
        System.out.println(dtf.format(date));
        System.out.println(dtf1.format(date));
        System.out.println(dtf2.format(bugun));
        System.out.println(dtf3.format(date));
        LocalDate dt=LocalDate.of( year: 2005, month: 03, dayOfMonth: 05);
        System.out.println("bugunun tarihi : "+bugun); // bugunun tarihi : 2024-09-23
        System.out.println("faruk dt :" +dt); // faruk dt :2005-03-05
        Period yasim=Period.between(dt, bugun);
        System.out.println("faruk beyin yasi : "+yasim); // faruk beyin yasi : P19Y6M18D
        System.out.println(yasim.getYears()); // 19
    }
}
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 7 sec, 142 ms (2 minutes ago)

12:1 CRLF UTF-8 Tab* master

The screenshot shows an IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - C05_ComparingDateAndTime.java [Java2021allfiles]
- Project Tree:** Shows a tree view of Java files under CoreJavaDay50/day30_DateTime, including C04_DateTimeFormatter.java, C004_DateTimeFormatter.java, and C05_ComparingDateAndTime.java.
- Code Editor:** The C05_ComparingDateAndTime.java file is open, displaying Java code for comparing dates and times using LocalDate objects. The code prints the current date, a specific date in 2021, and the difference between them.
- Run Tab:** The run configuration is set to C05_ComparingDateAndTime, and the output shows the execution results:

```
C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\Java\VisualVM\visualvm.jar" -Dfile.encoding=UTF-8 C:\Users\HP\IdeaProjects\Java2021allfiles\src\CoreJavaDay50\day30_DateTime\C05_ComparingDateAndTime
2024-09-23
2021-08-15
3

Process finished with exit code 0
```
- Bottom Navigation:** Git, Debug, TODO, Problems, Terminal, Services, Build.
- Status Bar:** All files are up-to-date (a minute ago).

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - C01_DateTimeFormmformat.java [Java2021allfiles]

Java2021allfiles > src > CoreJavaDay50 > day31_VarargsStringBuilder > C01_DateTimeFormmformat

Project Commit Pull Requests Bookmarks Structure

C004_DateTimeFormatter.java C05_ComparingDateAndTime.java C01_DateTimeFormmformat.java Run: C01_DateTimeFormmformat

```
1 package CoreJavaDay50.day31_VarargsStringBuilder;
2
3 import ...
4
5 public class C01_DateTimeFormmformat {
6
7     public static void main(String[] args) {
8
9         LocalDateTime ldt=LocalDateTime.now();
10
11         System.out.println(ldt); // 2024-09-23T23:02:58.739614900
12
13         DateTimeFormatter dtf = DateTimeFormatter.ofPattern("yy/MMMM/dd hh:mm");
14         // istedigim formatta yazdirmis oldum
15         System.out.println(dtf.format(ldt)); // 24/Eyl/23 11:02
16
17         DateTimeFormatter dtf1 = DateTimeFormatter.ofPattern("yy/MMM/dd");
18         System.out.println(dtf1.format(ldt)); // 24/Eyl/23
19
20         DateTimeFormatter dtf2 = DateTimeFormatter.ofPattern("HH:mm"); // 24 saatte gore
21         System.out.println(dtf2.format(ldt)); // 23:02 ---> 24 saatte gore
22
23         DateTimeFormatter dtf3 = DateTimeFormatter.ofPattern("hh:mm"); // pm/am sistemine gore
24         System.out.println(dtf3.format(ldt)); // 11:02 ---> 12 saatte gore
25
26     }
27
28 }
29
30 }
31
32 }
```

Run: C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\idea_rt.jar=5400:C:\Users\HP\IdeaProjects\Java2021allfiles" -Dfile.encoding=UTF-8 C01_DateTimeFormmformat

2024-09-23T23:02:58.739614900
24/Eyl/23 11:02
24/Eyl/23
23:02
11:02

Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 8 sec, 32 ms (a minute ago)

9:1 CRLF UTF-8 Tab* master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr00_Random_Nedir.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik30_Random > Pr00_Random_Nedir > main

Project Commit Pull Requests Bookmarks Structure

java x Pr11.java x Pr12.java x StringManipulations.java x Pr00_Random_Nedir.java x Run: Pr00_Random_Nedir x Notifications Run

Pr... P... + - java x Pr11.java x Pr12.java x StringManipulations.java x Pr00_Random_Nedir.java x Run: Pr00_Random_Nedir x Notifications

Pratik16_Constructor
Pratik17_Encapsulation
Pratik18_Inheritance
Pratik19_Override
Pratik20_Exceptions
Pratik21_Abstract
Pratik22_Interface
Pratik23_Iterator
Pratik24_Set_HashSet
Pratik25_Queue_Deque
Pratik26_Maps
Pratik27_StringManipulations
Pratik28_StringBuilding
Pratik29_DateTime
Pratik30_Random
Pr00_Random_Nedir
Pr01
Pr02
Pr03
Pratik31_Recursive
Pratik32_Projects
Pratik33_InterviewSoru
Pratik34_ReplitSoru
Pratik35_Enum
KonuOzetleri
Practice
hashMap
inheritance01
inheritance02
inheritance03

1 package JavaKonusalSorular.Pratik30_Random;
2
3 public class Pr00_Random_Nedir {
4
5 public static void main(String[] args) {
6
7 Math.random(); //0.0 ve 1.0 arasından bir değer veriyor
8 double random = Math.random();
9
10 //eğer tam sayı olarak bir değer istiyorsak *10 gibi bir sayı ile çarpabiliriz.
11
12 //eğer ki bir değer aralığında olacak şekilde bir random rakam istiyorsak o zaman bize
13 //verilen formulu kullanabiliriz.
14
15 //((int) (Math.random() * ((max - min) + 1)) + min;
16
17 //todo örnek
18
19 int min = 0;
20 int max = 15;
21
22 int randomNumber = (int) (Math.random() * ((max - min) + 1)) + min;
23 System.out.println(randomNumber);
24 }
25
26 }
27
28 }
29 }

Run: C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\idea_rt.jar=53144:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\bin" -Dfile.encoding=UTF-8 Pr00_Random_Nedir
2
Process finished with exit code 0

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 17:9 LF windows-1254 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr01.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik30_Random > Pr01 > main

Project Commit Pull Requests Bookmarks Structure

java StringManipulations.java Pr00_Random_Nedir.java Pr02.java Pr01.java

Run: Pr01

C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.3.1\lib\idea_rt.jar" -Dfile.encoding=UTF-8

2 + 6 = 8
Tekrar deneyiniz

Process finished with exit code 0

```
1 package JavaKonusalSorular.Pratik30_Random;
2
3 public class Pr01 {
4     /*
5         İki tane atılan zarın toplamlarının 9 olması durumunda "Kazandiniz" yazısını yazdırın,
6         aksi takdirde "Tekrar deneyiniz" yazısı yazmali
7     */
8
9     public static void main(String[] args) {
10
11         int min = 1;
12         int max = 6;
13         int ilkAtis = (int) (Math.random() * ((max - min) + 1)) + min;
14         int ikinciAtis = (int) (Math.random() * ((max - min) + 1)) + min;
15
16         int toplam = ilkAtis + ikinciAtis;
17
18         System.out.println(ilkAtis + " + " + ikinciAtis + " = " + toplam);
19
20         if (toplam == 9){
21             // System.out.println("kazandiniz");
22         }else {
23             // System.out.println("Tekrar deneyiniz");
24         }
25
26         String str = (toplam == 9) ? "kazandiniz" : "Tekrar deneyiniz";
27
28         System.out.println(str);
29
30     }
31
32 }
33
34 }
```

Git Debug TODO Problems Terminal Services Build

Build completed successfully in 6 sec, 331 ms (moments ago)

27:72 LF windows-1254 4 spaces master

File Edit View Navigate Code Refactor Build Run Tools Git Window Help Java2021allfiles - Pr02.java [Java2021allfiles]

Java2021allfiles > src > JavaKonusalSorular > Pratik30_Random > Pr02

Project Commit Pull Requests Bookmarks Structure

java StringManipulations.java Pr00_Random_Nedir.java Pr02.java Pr01.java

Run: Pr02

C:\Users\HP\jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA 2021.2.1\lib\javaagent.jar" -Dfile.encoding=UTF-8

Lutfen min icin bir deger giriniz
85
Lutfen max icin bir deger giriniz
185
random rakam = 85

Process finished with exit code 0

```
1 package JavaKonusalSorular.Pratik30_Random;
2
3 import java.util.Scanner;
4
5 public class Pr02 {
6
7     public static void main(String[] args) {
8
9         //Console uzerinden maximum ve minimum degeri saglayiniz
10        // ve buradan gelen rakamlari Math.random() da olmosunu istediginiz araliga getiriniz.
11
12        Scanner scanner = new Scanner(System.in);
13
14        System.out.println("Lutfen min icin bir deger giriniz");
15        int min = scanner.nextInt();
16
17        System.out.println("Lutfen max icin bir deger giriniz");
18        int max = scanner.nextInt();
19
20
21        int randomNumber = (int) (Math.random() * ((max - min) + 1)) + min;
22
23        System.out.println("random rakam = " + randomNumber);
24    }
25}
```

Git Debug TODO Problems Terminal Services Build

All files are up-to-date (moments ago) 9:1 LF windows-1254 4 spaces master

The screenshot shows an IDE interface with the following details:

- File Menu:** File, Edit, View, Navigate, Code, Refactor, Build, Run, Tools, Git, Window, Help.
- Title Bar:** Java2021allfiles - Pr03.java [Java2021allfiles]
- Project Tree:** Java2021allfiles > src > JavaKonusalSorular > Pratik30_Random > Pr03
- Code Editor:** The file Pr03.java contains the following code:

```
package JavaKonusalSorular.Pratik30_Random;

public class Pr03 {

    public static void main(String[] args) {
        //Math.random() kullanarak cikan sayinin cift ya da tek sayi olup olmamasini kontrol edin
        //Cift sayi ise sifir sayi oldugunu, tek ise tek sayi oldugunu yazdiriniz

        int min = 0;
        int max = 20;

        int randomNumber = (int) (Math.random() * ((max - min) + 1)) + min;
        System.out.println("random rakam = " + randomNumber);

        //1.yol

        //if (randomNumber % 2 == 0){
        //    System.out.println("cift sayidir");
        //}else {
        //    System.out.println("tek sayidir");
        //}

        //2.yol ternary operator ile

        String str = (randomNumber % 2 == 0) ? "cift sayidir" : "tek sayidir";
        System.out.println(str);
    }
}
```
- Run Tab:** Run: Pr03. The output window shows:

```
C:\Users\HP\.jdks\openjdk-18.0.2\bin\java.exe "-javaagent:C:\Program Files\Java\Java Konusal Sorular\Pratik30_Random\Pr03.jar" -Dfile.encoding=UTF-8
random rakam = 4
cift sayidir

Process finished with exit code 0
```
- Side Panels:** Notifications, Run, Git.
- Bottom Navigation:** Git, Debug, TODO, Problems, Terminal, Services, Build.
- Status Bar:** All files are up-to-date (moments ago), 6:1 LF windows-1254 4 spaces, master.