Sumilar data types that share (ommon location.

The Luge of the averay sefer how marry element, an averay can hold.

trost element under No is 8 and last element.

under No us less than one of the Suze of the array.

Array

one-D-avray one dimensional avray

Multi-D-boray Multi Dumensional avvay.

One Davicy.

ent a [] = new und [10];

| a[0] | a [1] | 0[2] |  |  | <br>a[a] |
|------|-------|------|--|--|----------|

Two D array

int a[][] = new int [2] [3];

a[0][0] a[0][1] a[0][2]

[2][] [

3-0- averey

unt a [] [] [] = new unt [2] [3];

```
િણિ િણિશ
[6] [6]
        (a) (a) (a) (a) (b) (c) (c)
[0][1][0]
                 [1][6][1] [1][6][2]
ម្ចាល់ទៀ ប្រាប្រាប់ ប្រាប្រាស់
      in the second of
              t at the second second
4-0- Array
int a [][][][] = new int [2][2][2];
[0][0][0][0][0][0][0][0][1]
િલિલિલિ અભાગા ભાગાવિ
                                     , (
 [1][07
                         10 - 0 1 my - 54
                       , de este la conse.
 [1][0]
 [1]
         The talk paid is to silver a the
 િલિલિ 🖟 ાલિલિનિ માને વિલિલિનિ 🦠 ન
 WAP that Read N rumber from weer and chatlany
their dum.
umport jana util +; ... time it is in
Class A
                   era l
  hubble state word main (String KIJ)
  à Scammer ob = neur Scammer (System in);
    System out bruntlen ("Enter Size");
    und N = ob nextInt();
    unt a [] = rew unt[N];
```

```
Sohlm ("Enter values");
    for (unt i = 0; 1< N, 144)
      a[i] = 0b next Int ();
    unt Sum = 0;
    for ( int i = 0; ix a length; itt)
       dum = dum + a [i];
    Sohlm (dum);
             the transfer of the second of the second
         Literate the first a little to the
 80
  for (and b : a)
    Sum= dum+b;
                             Creale a method (function) that take an array
as a harameter and option, Sum of averay;
imhort Jane uhl +;
Class arre
  State unt Sum (cont a[]) with rough to find
     ent dum =0;
      for (int b:a)
       dum= dum+b;
      octurn sum;
   3
 }
```

```
Class T
   public state word main (Strung K(I).
    Scanner ob = new Scanner (dyplom.in);
    sofilm ("Enter averay Suzo");
    unt N = ob next Int ();
unt a [] = new unt [N];
     unt i;
     Sotem (" Enter value");
     for (i=0; i<N, i++)
         a[i] = ob read Int();
     ent o = ave sum (a);
     80tem (" dum = "+ 0);
     } ; (if mo) psi i i p
  3
 Array is passed to function call - (call by
 Reference)
                 Line and the configurations
  class ary
     State void shour (unt a [])
        a [0] = 90 ; 1 ... 1 ... 1 ...
        a [1] = 400;
```

```
class T
```

hublic valatic void mours (Strung K(J))

[ unt a[] = \langle 10,20];

arer valour(a);

Sothern (a[o]);

Sothern (a[i]);

3 do ...

3 do ...

a | (6) (1)

Note: - eus com Passa am avviery to a l'il function by using avviery Name.

An avvery us a by default Reference

Create, a method that take array as a harameter and return missing rumber.

Array Luzo (5) [2,1,5,4,6]

Class over

Static unt fund (unt a (1))

Static unt  $m = a \cdot length + 1;$ unt sum = ((m) \* (m+1))/2;

```
for ( unt b:a)
    & dum = dum - b,
    return dum;
ξ
Class T
    hubble static word moum (Strung K[])
     ent a[] = {1,3,6,4,2};
     unt & = avor fund (9);
     Softlin (2),
3
Create a method that take an array as a harameter
and return true if array is in ascending order
other Return false
                      Jalse
   al ul 7 | aliz |
                     Lue
classo cour
          booleam chack (unta[])
        boolean b = Low;
        int in
       for (i=1; ixa length; i++)
         14 (a[i] < a[i-1])
           } b = Jalse;
```

```
delum b
classo T
                              b s v M (Strang K [ ])
                                           Lont al] = {10,7,6,8,12];
Sotem (ass check (a)); -7 false,
                                              Int b[] = {3,10,12,20,25,30};
                                            Sotrem (arr check (b));
                                                                                                                                                                                                                             -> Low
 3 was a second of the same of the
                     the second of th
                                                                                                                                                                the state of the same of the same
                                                                                                                                                             - - i - - - i
```

```
# Create a Method that take an average as a
    havermeter and return difference between
    Smallerd and largest value of an averay.
    Dass are
       ([] a trui) surrorallib true state
          int wmall, large
          unt small = afot, tougo - afot; Int gorithey were
          for (ent b:a) long = Iwager MIN-VALUE;
           If (b) Large)
                 gardo = p;
              it (b < small) + .....
                  Small = b;
           unt difference = large-small;
          return différence;
   Class main class
                     uoid main (Strung K[])
            int a [] = {5,7,9,11,2,1};
            und ans = a. difference (a);
         SOPL (amo);
```

```
# create a Method that
 take an array as a transmeter and also
 retemporar a de cular discosa a carameter
 and forcher frequency of Leavet value
 class ave
    static unt Search (untal) und num)
       unt (ount =0;
      for (and b: a)
{ If (b == rum) ; ; ...
         { Cound ++;
      deliver Count;
 Class main class
      trublic static word main (strang KIJ)
         a und a [] = {2,3, 2,1,5,2};
        unt ama = aver Search (a,2);
      SOPL (arma);
      3
      The second of the second
```