Copy Array:

copy()

input:

int A[n] texts in array of integers, A

output:
outputs a capy/duplicate of array A,
this duplicate is B, array of integers

nothods:

For poop For lie 0; 1 (n; ii) } duplicate array ossign \*O variable

3

### Sum of All Elements?

add All ()

input:

int A[n] A, an array of integers

output.

sum, the sum of the n elements in the array, A

nothods:

For loop For (int i=0, i/n) Sum = sum + A

# Sum of Two Acrays. add Arrays (): input: a separate arrays w/ # values A array of a numbers Barray of n numbers

But put:

Carray adds together the numbers in A position i and B position i

outputs the sum of A position i and B position i in new array, Gin position i

method.

For locp For i= 0 +0 m { returns Cn 3

# Product of All Elements:

multiply All()

: typn:

Int [N]

A, an array of integers up ton

output.

Product, the product of multiplying n elements, in A, together U

nothods:

For loop

For (; EO; in)

Product = A[i].A

And Average of Elenents:

Find Average ()

: typn

A, an array of integers

output:

therage, the average of all nualves in A

nothods:

For 100p For (i=0', i=n', i++) Avg = A[i] + A[i]

## Swap Elements:

Swap()

Hyni:

A) an array of nintegers

output:

places

nothods:

For loop  $for(i=0; i \le n)$ if i=y (index) II := z (index) swhen places

#### Find Elements:

15 Element ()

imput:

A, an array or integers
y, an integer value

output:

a boolean rature of true or raise depending on if y is in A or not

nothods:

For loop

For (120) ...)

of A. contains (y)

return Bodean true

else F:

return Boolean Gelse

#### Find Index of Elementi

index GF()

input:

int A[n)

A, an array of n integers

y, an integer volue

output.

the value of y if it is in A, otherwise
the value of

nothods:

For loop

For (itel...)

if A. contains (y)

return (index of y)

else IF

return (-1)

Find Mini

Find Min ()

input:

A, an array of n integers

output:

returns the smallest integer varlue (2) in the array, A

nothods:

For 100p

min = 5

for loop (120, 12n) 2 if y=> min, min stays same else: y 2 min min = y Find Index of Min.

Find Min undex ()

inpot:

M+ ACM

A) array of n integers

output:

returns the index raise of the

nothods:

for 100p

min = y (smallest int)
For (-- ..)

Find min

return inda

Find Max

Fird Max ()

impot:

INT A FNI

A, an integer array

output.

the max/largest value & A

nothods:

for bop

MOX= y (larges)

of (max = 7 y)
return max

else:

max = = Integer

Find Index of Max!

Find Max Index ()

inpot:

Int AIn

A, an array of nintegers

output:

the index of the max valve in the

nothods:

For locp

Fcx (...)

min = y Find min

return index

Reverse an Array:

reverse()

intA[n]
A) array of Aintegers

output.

the reverse values us A

nothods:

For 100P For (i=max value, i-)

(Gonts Lown From Max value

Intersection of Two Herays intersection () both arrays input: int Alno textes in Array A OF 1 numbers int B[n] tates in Acray B of n numbers output: Carroy contains any duplicate numbers, n, that are in both array A and B methods. for 100p For (j=0) to n?

If  $A_n = = B_n$ ;

ceturn  $C_n$ ;

3

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Union of Two Arrays.

union ()

int A[n]

A, an array of nombers

B, an array of n number

output:

C, a new array that contains the n numbers from array A & B so I two arrays combined

Methods:

500 1000 Cor (1=0 to n) { C = A+B return C