

Print first 50 Prime number

all cannot divide → Prime → Print

number: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, - - -

Print: 2, 3, 5, 7, 11

one divide → break → not prime → no print

while _____:

for _____:

if _____:
break

Print

$\frac{x}{8}$ $\frac{y}{24}$

| gcd | div |
|-----|-----|
| 1 | 2 |
| 2 | 3 |
| 4 | 4 |
| 8 | 5 |
| | 6 |
| | 7 |
| | 8 |

H.W 5.18
Example a. Flow Control p 3, 4, 5

Declaration

Creation

int[] x = new int[5];

x[0] = 23;
x[1] = 25;

Initialization

int[] y = {23, 25, 17, 12};

| y | |
|---|----|
| 0 | 23 |
| 1 | 25 |
| 2 | 17 |
| 3 | 12 |

| | |
|---|----|
| 0 | 23 |
| 1 | 25 |
| 2 | 0 |
| 3 | 0 |
| 4 | 0 |

Enter num of students: 5

Enter s1's mark: 55

~ ~ ~ : 63

~ ~ ~ : 73

~ ~ ~ : 40

~ ~ ~ : 52

best = 73

A → m ≥ best - 10

B → m ≥ best - 20

C → m ≥ best - 30

D → m ≥ best - 40

F → else

marks

| | | |
|---|----|-----|
| 0 | 55 | → B |
| 1 | 63 | → A |
| 2 | 73 | → A |
| 3 | 40 | → D |
| 4 | 52 | → C |

best
55
63
73

Enter num of emps: 4

Enter emp salary: 7000

~ ~ ~ : 15000

~ ~ ~ : 13000

~ ~ ~ : 5000

$$\text{avg} = \frac{\text{total}}{n} = 10000$$

salaries

| | |
|---|-------|
| 0 | 7000 |
| 1 | 15000 |
| 2 | 13000 |
| 3 | 5000 |

| total | count |
|-------|-------|
| 0 | 0 |
| 7000 | 1 |
| 22000 | 2 |
| 35000 | |
| 40000 | |

int x = 5;

int y = x;

y += 3;

x
5

y
8

Copy
Value

int[] x = {10, 20, 30};

int[] y = x;

y[2] += 3;

Copy
Reference

| | |
|----|----|
| x | y |
| 10 | 10 |
| 20 | 20 |
| 30 | 33 |

h.w

7.4, 7.7

7.12

