Topics to discuss

- · Print all Factors or divisors of a number.
- · Brute force 2 Optimal Solution.
- · Its time & space complexity.

Brute force Approach

```
Static void solution (int n) {

for (int i=1; i <= n; i++) {

if (n / i == 0)

print (i)

}
```

$$I/b$$
: 10
0/b: 1,2,5,10

Obtimal Approach

n = 10factors = 1, 2, 5, 10

So, $i \times j = n$ (i & j ore factors) j = n

i.e, i & n are factors.

i'< In

```
Static void Optimal Solution (int n) {

for (int i=1; i < Math. sq.rt(n); i++) {

if (n / i == 0) {

if (i== n/i) Print (i)

else print (i+", "+\frac{n}{i});
}
```

It will not print factors on sorted order.

Follow Now



Start Practicing



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