

✓✓✓✓✓✓✓ 1  
 → ✓✓✓✓✓ 2  
 → ✓✓✓ 3  
 → 1 2 3 4

```
int main()
{
  int i, j, k, m=6;
```

```
  for(i=1; i<=4; i++)
```

i=1	i=3
k=1 — 6	k=1-2
j=1 → i	j=1-3
m=4	m=0
i=2	i=4
j=1-2	j=1-4
m=2	m=-2

```
    for(k=1; k<=m; k++)
```

```
      printf(" ");
```

```
    for(j=1; j<=i; j++)
```

```
      printf("%d ", j);
```

```
    printf("\n");
  }
  return 0;
}
```

Ⓐ

```

      1
    1 2 1
  1 2 3 2 1
1 2 3 4 3 2 1
```

Ⓑ

```

      1 2 3 4 3 2 1
    1 2 3 2 1
      1 2 1
        1
```

Ⓒ

```

      1 2 3 4
    1 2 3
      1 2
        1
```

Ⓓ

```

      1
    1 2
  1 2 3
1 2 3 4
  1 2 3
    1 2
      1
```

⑤

```

      1
    1 2 1
  1 2 3 2 1
1 2 3 4 5 2 1
  1 2 3 2 1
    1 2 1
      1
  
```

$$n = 2w$$

```

1  for (i = 1; i <= n; i++)
    {
        x = i;
        while (x > 0)
        {
            sum = x + sum;
            x = x / 10;
        }
        if (sum == i)
            cout << i << " ";
    }
  
```

```

int main()
{
    int i,x,n,sum,rem;
    printf("Enter an int:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        x=i;
        sum=0;
        while(x>0)
        {
            rem=x%10;
            sum=sum+rem*rem*rem;
            x=x/10;
        }
        if(sum==i)
            printf("%d\n",i);
    }
    return 0;
}

```

n = 20

i = 153  
~~x = 153~~ 15 + 0  
 sum = 0  
 a) rem = 153 ./. 10 => 3  
 sum = 0 + 27 => 27  
 b) rem = 15 ./. 10 => 5  
 sum = 27 + 125 => 152  
 c) rem = 1 ./. 10 => 1  
 sum = 152 + 1 => 153

```

int main()
{
    int i,x,n,sum,rem;
    printf("Enter an int:");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        for(sum=0,x=i;x>0;x=x/10)
        {
            rem=x%10;
            sum=sum+rem*rem*rem;
        }
        if(sum==i)
            printf("%d\n",i);
    }
    return 0;
}

```

n = 20

<p><u>i = 1</u>              sum = 0              x = 10              rem = 1 ./. 10 =&gt; 1              sum = 0 + 1 =&gt; 1</p>	<p><u>i = 2</u>              sum = 0              x = 20              rem = 2 ./. 10 =&gt; 2              sum = 0 + 8 =&gt; 8</p>
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