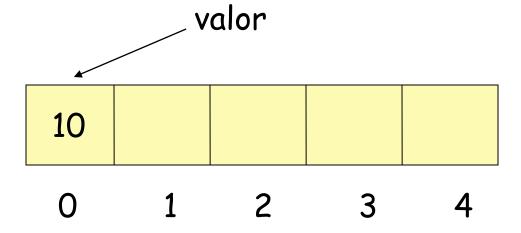
4

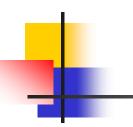
Seja um vetor, de nome valor, com 5 elementos

4

Criação, por leitura, do vetor

Iteração 1



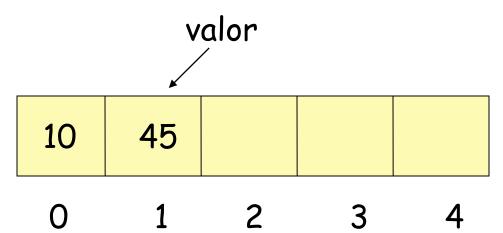


Iteração 2

```
i = 1
```

valor[i] = 45

```
for (i = 0; i<MAX; i++)
{
    printf("Valor [%d]: ", i);
    scanf("%d", &valor[i]);
}</pre>
```



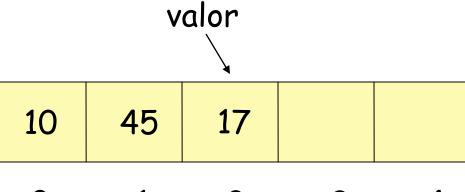


Iteração 3

```
i = 2
```

```
valor[i] = 17
```

```
for (i = 0; i<MAX; i++)
{
    printf("Valor [%d]: ", i);
    scanf("%d", &valor[i]);
}</pre>
```



1 2



Iteração 4

```
i = 3
```

valor[i] = 3

```
for (i = 0; i<MAX; i++)
{
    printf("Valor [%d]: ", i);
    scanf("%d", &valor[i]);
}</pre>
```

valor

10 45 17 3

0

1

2

3

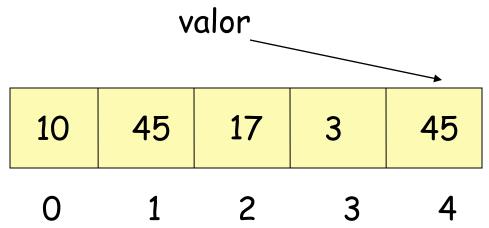


Iteração 5

```
i = 4
```

valor[i] = 45

```
for (i = 0; i<MAX; i++)
{
    printf("Valor [%d]: ", i);
    scanf("%d", &valor[i]);
}</pre>
```





Iteração 6

```
i = 5
```

--> Fora do laço

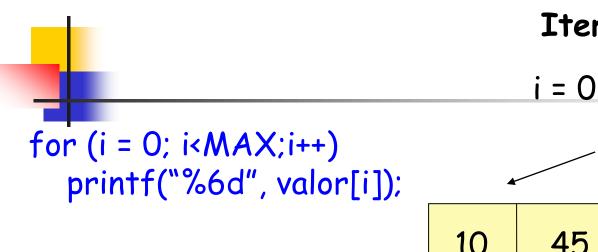
```
for (i = 0; i<MAX; i++)
{
    printf("Valor [%d]: ", i);
    scanf("%d", &valor[i]);
}</pre>
```

valor

10	45	17	3	45
0	1	2	3	4

4

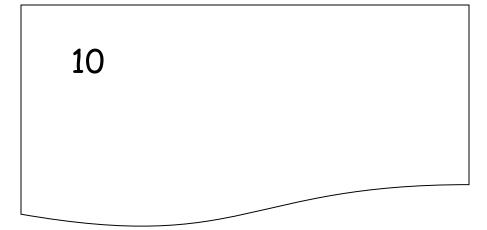
Apresentação na tela do conteúdo do vetor

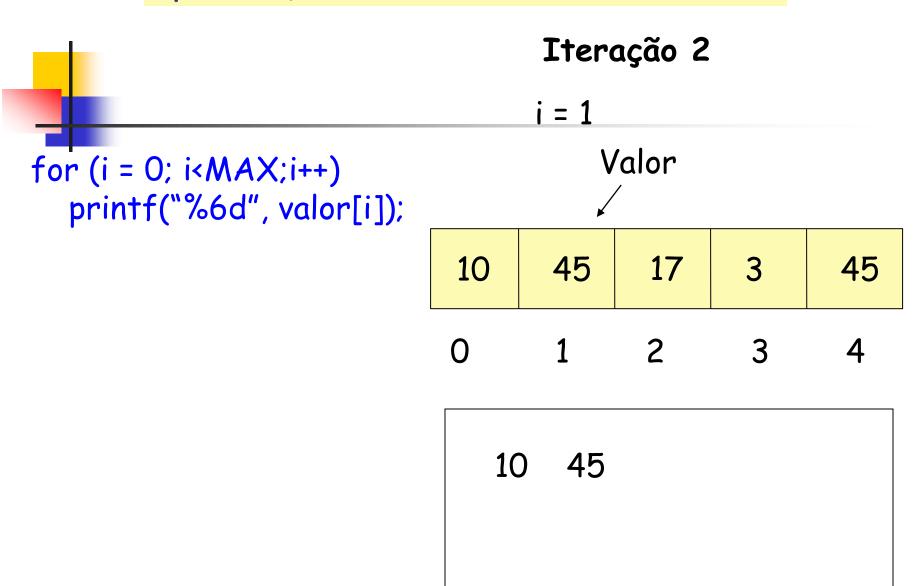


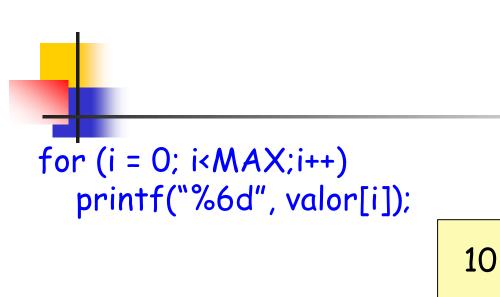
Iteração 1

Valor

10	45	17	3	45
0	1	2	3	4





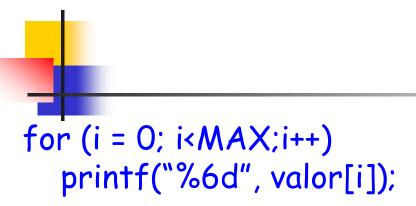


Iteração 3

45

0 1 2 3 4

10 45 17



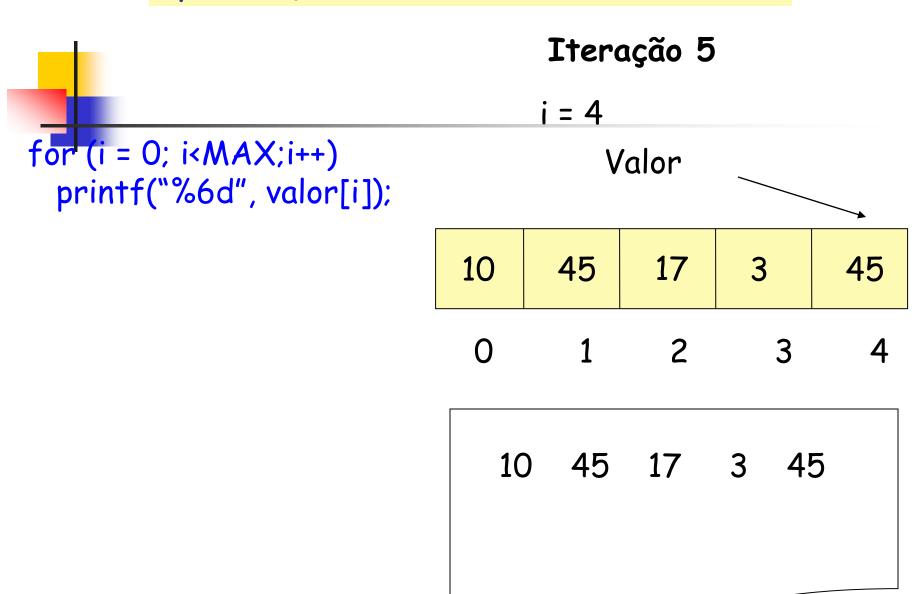
Iteração 4

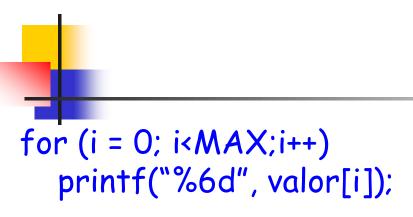
$$i = 3$$

Valor

10	45	17	3	45
0	1	2	3	4

10 45 17 3





--> Fora do laço

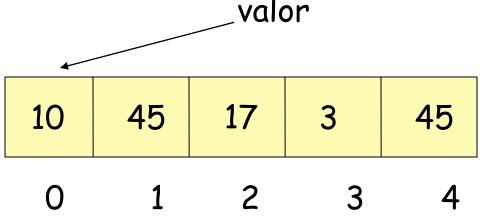
valor

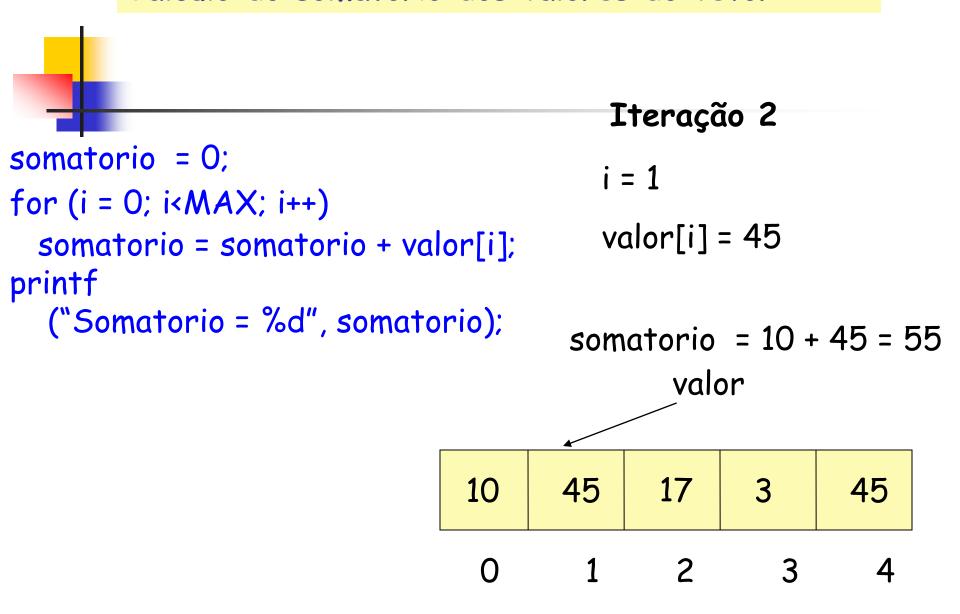
10	45	17	3	45
0	1	2	3	4

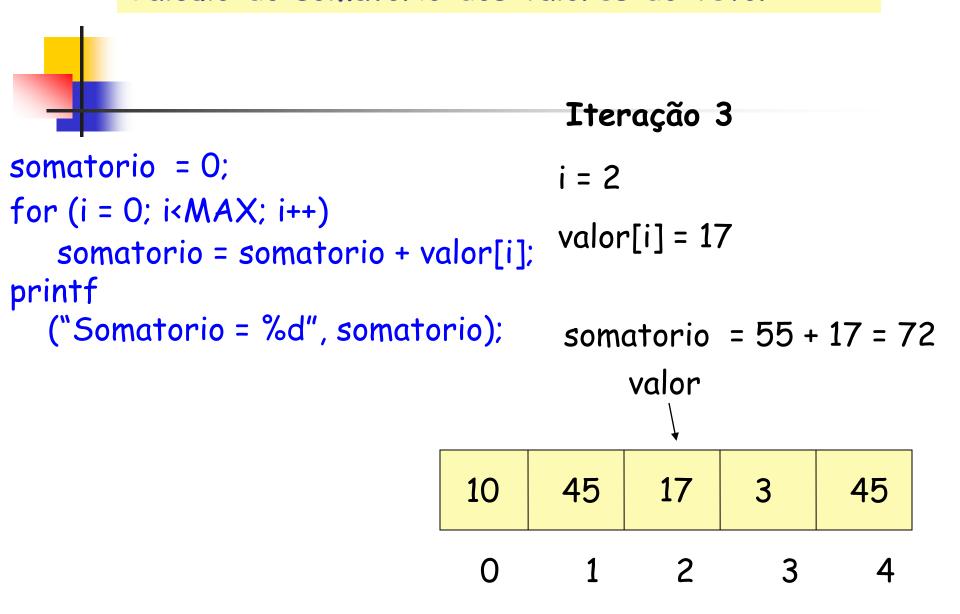
10 45 17 3 45



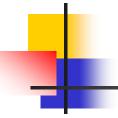
```
Iteração 1
somatorio = 0;
                                         i = 0
for (i = 0; i<MAX; i++)
 somatorio = somatorio + valor[i];
                                         valor[i] = 10
printf
  ("Somatorio = %d", somatorio);
                                       somatorio = 0 + 10 = 10
                                              valor
```





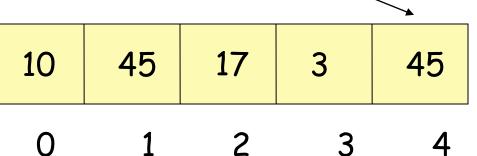


```
Iteração 4
somatorio = 0;
                                       i = 3
for (i = 0; i<MAX; i++)
                                      valor[i] = 3
   somatorio = somatorio + valor[i];
printf
  ("Somatorio = %d", somatorio);
                                       somatorio = 72 + 3 = 75
                                            valor
                                             17
                                10
                                      45
                                                    3
                                                           45
```



Iteração 5

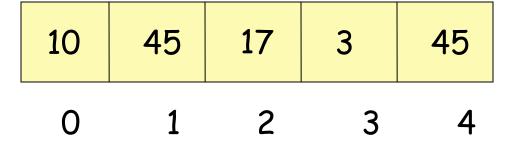
```
i = 4
somatorio = 0;
                                       valor[i] = 45
for (i = 0; i<MAX; i++)
 somatorio = somatorio + valor[i];
printf
                                    somatorio = 75 + 45 = 120
   ("Somatorio = %d", somatorio);
                                            valor
```





Iteração 6

valor

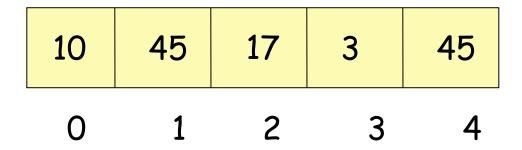


4

Somar a cada posição do vetor o seu índice



Valores do vetor no início do processo





Iteração 1

$$i = 0$$

Antes:

valor[i] = 10

Depois:

valor[i] = 10





Iteração 2

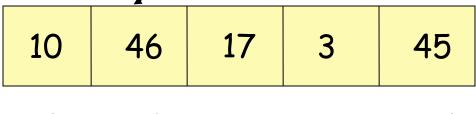
$$i = 1$$

Antes:

valor[i] = 45

Depois:

valor[i] = 46



0

1

2

3



Iteração 3

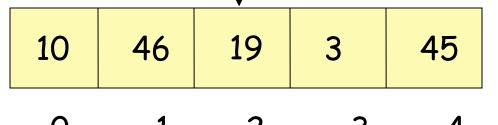
$$i = 2$$

Antes:

valor[i] = 17

Depois:

valor[i] = 19





Iteração 4

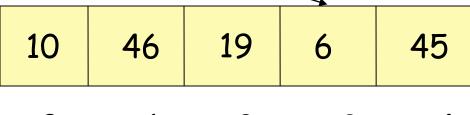
$$i = 3$$

Antes:

valor[i] =3

Depois:

valor[i] = 6



O

1

2

3



Iteração 5

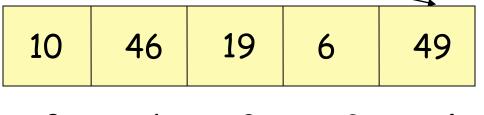
$$i = 4$$

Antes:

valor[i] =45

Depois:

valor[i] = 49



0

1

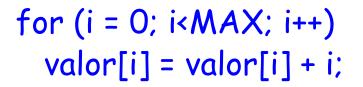
2

3

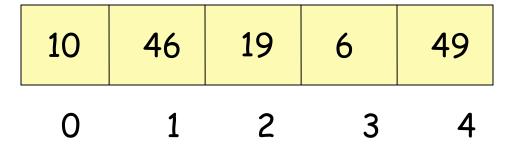


Iteração 6

$$i = 5$$

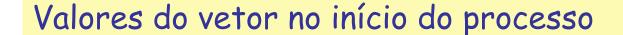


valor



Deslocar todos os elementos do vetor de uma posição, perdendo a última

e zerando a primeira



10	45	17	3	45
0	1	2	3	4



Iteração 1

```
for(i=MAX - 1;i>0;i--)
    vetor[i] = vetor[i - 1];
vetor[0] = 0;
```

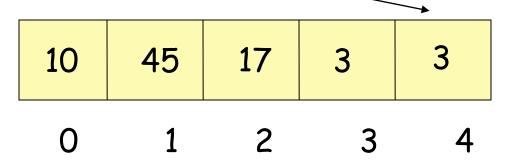


Antes:

valor[i] =45

Depois:

valor[i] = 3





```
for(i=MAX - 1;i>0;i--)
    vetor[i] = vetor[i - 1];
vetor[0] = 0;
```

Iteração 2

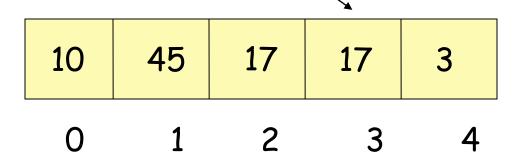
$$i = 3$$

Antes:

valor[i] = 3

Depois:

valor[i] = 17





```
for(i=MAX - 1;i>0;i--)
    vetor[i] = vetor[i - 1];
vetor[0] = 0;
```

Iteração 3

$$i = 2$$

Antes:

valor[i] = 17

Depois:

valor[i] = 45



0 1 2 3



```
for(i=MAX - 1;i>0;i--)
    vetor[i] = vetor[i - 1];
vetor[0] = 0;
```

Iteração 4

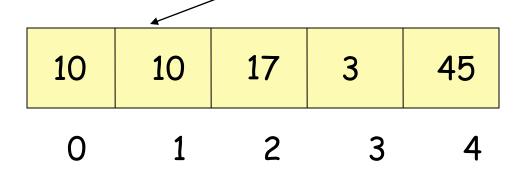
$$i = 1$$

Antes:

valor[i] = 45

Depois:

valor[i] = 10





```
for(i=MAX - 1;i>0;i--)
    vetor[i] = vetor[i - 1];
vetor[0] = 0;
```

for concluído, instrução imediatamente após é executada.

