
Subject: Re: Multiply a scalar to every element of a vector

Posted by [Oblivion](#) on Wed, 17 Mar 2021 08:31:22 GMT

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Hello David,

Something like this, maybe?

```
CONSOLE_APP_MAIN
```

```
{  
    StdLogSetup(LOG_COUT);
```

```
    Vector<int> v = Makelota(100, 1, 1);
```

```
        // With for_each loop
```

```
    std::for_each(v.begin(), v.end(), [](int& i) { i *= 10; });
```

```
    RDUMP(v);
```

```
        // With std::transform:
```

```
    std::transform(v.begin(), v.end(), v.begin(), [](int i) { return i *= 10; });
```

```
    RDUMP(v);
```

```
    Vector<int> q;
```

```
    std::for_each(v.begin(), v.end(), [&q](int i) { q.Add() = i /= 10; });
```

```
    RDUMP(q);
```

```
}
```

Output:

```
v = [10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210,  
220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400,  
410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590,  
600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780,  
790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970,  
980, 990]
```

```
q = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28,  
29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54,  
55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80,  
81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99]
```

Usually you can use U++ containers with basic std:: algorithms.

Best regards,
Oblivion
