
Subject: array : minimum value

Posted by [idkfa46](#) on Wed, 07 Mar 2012 10:17:19 GMT

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Hello guys,

I have to find the minimum value into an array of 6 elements... here my solutions:

1)

```
...
double vet[] = { _a, _b, _c, _d, _e, _f };
double r = min(_a, _b);
r= min(r,_c);
r= min(r,_d);
r= min(r,_e);
r= min(r,_f);
```

```
return r;
```

2)

```
double vet[] = { _a, _b, _c, _d, _e, _f };
double min = vet[0];
for (int i=0; i<(sizeof vet/sizeof *vet ); i++)
{
    if(vet[i] < min){ min = vet[i];}
}
return min;
```

There is an easier way to do it ?!

thanks Matteo

Subject: Re: array : minimum value

Posted by [Wolfgang](#) on Wed, 07 Mar 2012 20:27:34 GMT

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Hi,

I think your second solution is fine?!

Maybe just a little change:

```
double vet[] = { 10,23423,232,2,3,4,5,6,7 };
int minNo=0;
```

```
for (int i=1;i <(sizeof vet/sizeof *vet );i++)
    if(vet[i] < vet[minNo])
        minNo = i;
return vet[minNo];
```

greetings
Wolfgang

Subject: Re: array : minimum value
Posted by [Sender Ghost](#) on Thu, 08 Mar 2012 11:31:33 GMT
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Hello.

idkfa46 wrote on Wed, 07 March 2012 11:17: There is an easier way to do it ?!

If you meant already defined functions to find minimum (maximum) value of the array, then there are two function templates from std and Upp namespaces (corresponding to STL and NTL (U++)), at least:

```
std::min_element (std::max_element),
Upp::MinElement (Upp::MaxElement).
```

```
#include <Core/Core.h>
```

```
CONSOLE_APP_MAIN {
int vec[] = { 5, 4, 3, 2, 1, 6, 7, 8, 9, 10 },
*Upp_value = Upp::MinElement(vec, vec + __countof(vec)),
*std_value = std::min_element(vec, vec + __countof(vec));

ASSERT(Upp_value == std_value);

Upp::Cout() << "Minimum value"
<< "\nUpp: " << *Upp_value
<< "\nstd: " << *std_value
<< "\n\nIndex of minimum value: " << Upp_value - vec << '\n';
}
```

Subject: Re: array : minimum value
Posted by [idkfa46](#) on Thu, 08 Mar 2012 12:17:38 GMT
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Lovely ...
Thanks both

Subject: Re: array : minimum value
Posted by [deep](#) on Thu, 08 Mar 2012 17:06:23 GMT
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```
double vet[] = { 10,23423,232,2,3,4,5,6,7 };  
int minNo=0;  
for (int i=1;i <(sizeof vet/sizeof *vet );i++)  
    if(vet[i] < vet[minNo])  
        minNo = i;  
return vet[minNo];
```

Code above will return minvalue as zero which is not array element

Small logical change

Define minNo = max-expected-value

This way you will get min value of array.

Subject: Re: array : minimum value
Posted by [Wolfgang](#) on Thu, 08 Mar 2012 20:37:00 GMT
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sorry deep but i think you're wrong.
int minNo=0; don't defines the minimal number, it defines the index of the first value to compare with. (because of this you can do a for (int i=1...) instead of int i=0.

vet[0] is element of array

Subject: Re: array : minimum value
Posted by [deep](#) on Sat, 10 Mar 2012 14:50:00 GMT
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Hi Wolfgang,

I missed it
