memset showing wrong results [duplicate]

This question already has an answer here:
Initializing entire array with memset 4 answers

The code is to check the working of memset in C. memset initializes the array correctly for 0 but when I try initialize it with 10 it initializes the array with some very large garbage value .What's wrong?

```
#include <stdio.h>
#include<string.h>
int main(void)
{
   int dp[10008],i;
   memset(dp,10,sizeof(dp));
   for(i=0;i<10;i++)
    printf("%d\n",dp[i]);
   return 0;
}</pre>
```

edited Sep 29 '15 at 11:42

utnapistim
20.7k 2 27 70

asked Sep 29 '15 at 11:29



marked as duplicate by Jens Gustedt © Sep 29 '15 at 13:26

This question has been asked before and already has an answer. If those answers do not fully address your question, please ask a new question.

- 6 memset initialises each byte with 10. when you interpret four bytes with 10 in them (or 8 or whatever) then you get these values.. you need to loop over the data and set each integer (not byte) to 10 if thats what you want amdixon Sep 29 '15 at 11:32
- 2 @amdixon: Yep. Why not write this as an answer? M Oehm Sep 29 '15 at 11:32

@MOehm ok will do - amdixon Sep 29 '15 at 11:33

- While a solution to this could be the same in both C and C++, C++ have other alternatives that would be better (IMO). Please pick the language you want the solution in. Some programmer dude Sep 29 '15 at 11:34
- 2 You shouldn't allocate large amounts of data on the stack. That is, unless you are a fan of stack overflow. Lundin Sep 29 '15 at 11:39

2 Answers

man memset

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```
#include <stdio.h>
#include <string.h>
int main(void)
     int dp[10008],i;
     for(i=0;i<10008;i++)
       dp[i] = 10;
     }
// do other stuff here..
     return 0;
```

edited Sep 29 '15 at 12:34

answered Sep 29 '15 at 11:40



3,496 8 18 32

The memset should be removed entirely from the modified code. – Lundin Sep 29 '15 at 11:41

thanks, too much copy+paste;) - amdixon Sep 29 '15 at 11:42

In case anybody is tempted to apply premature optimization to your good, clear code: compilers are pretty good at optimizing simple loops and I'd expect that the compiler would convert this loop to a big memset anyway – M.M Sep 29 '15 at 11:45

@LPs memset sets bytes to value . Every byte is 8 bits, and 10 is 0x00001010 , so why would it be 0x10101010 ? - Enzo Ferber Sep 29 '15 at 12:13

 $@ Enzo Ferber \ I \ misunderstood. \ I \ thought \ was \ the \ array \ representation, \ not \ the \ byte \ binary \ representation. \ -$ LPs Sep 29 '15 at 12:32

memset sets bytes and works for characters because they are single bytes, but integers are not.

answered Sep 29 '15 at 11:44



Vinod

253 2 14