Subject: prototype not found
Posted by Leander on Sun, 09 Jun 2019 16:59:36 GMT
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Hi together.

Have got this code here:

```
#include <string>
#include <stdlib.h>
using namespace std;

template <typename T>
T* new_(int size=1, bool init=false);

template <typename T>
T* new_(int size, bool init)
{
 if (size < 1) {return NULL;}
 T *p = NULL;
 if (size==1) {p = new T;}
 else {p = new T[size];}
 if (!p) exit(-1);
 if (init) memset(p, 0, sizeof(T) * size);
 return p;
}

int main()
{
 std::string *pst;
 pst = (string*)new_();
 return 0;
}
```

The return "pst" should be enough to know what is a T.
But even the cast doesnt help (couldn't deduce...), see below.
Now I can call it with args or without and the MinGW will rant it (return.txt):

```
main.cpp: In function 'int main()':
main.cpp:28:22: error: no matching function for call to 'new_()'
main.cpp:28:22: note: candidate is:
main.cpp:14:4: note: template<class T> T* new_(int, bool)
main.cpp:14:4: note:   template argument deduction/substitution failed:
main.cpp:28:22: note:   couldn't deduce template parameter 'T'
```

And it suggests the only existing always, the upper prototype,
but doesnt accept it.
Someone has got a tip?

Martin