



function paramtest

localvars x a b c d e f g h

params a b c d e f g h

x := c

return x

paramtest:

```
# prologue, update stack pointer  
pushq    %rbp # save old base pointer  
movq    %rsp, %rbp # set new base pointer  
push    %rbx # %rbx is callee-saved
```

```
# allocate stack space for locals  
sub    $72, %rsp
```

```
# move register parameter a to local variable  
mov    %rdi, -16(%rbp)  
# move register parameter b to local variable  
mov    %rsi, -24(%rbp)  
# move register parameter c to local variable  
mov    %rdx, -32(%rbp)  
# move register parameter d to local variable  
mov    %rcx, -40(%rbp)  
# move register parameter e to local variable  
mov    %r8, -48(%rbp)  
# move register parameter f to local variable  
mov    %r9, -56(%rbp)  
# move stack parameter g to local variable  
mov    16(%rbp), %rax  
mov    %rax, -64(%rbp)  
# move stack parameter h to local variable  
mov    24(%rbp), %rax  
mov    %rax, -72(%rbp)
```

h

mov -32(%rbp), %rax

mov %rax, -8(%rbp)

set return value

mov -8(%rbp), %rax

epilogue

```
pop    %rbx # restore rbx for the caller  
mov    %rbp, %rsp # restore old stack pointer  
pop    %rbp # restore old base pointer  
ret
```



