| **Functions** | **Blocks of Assembly Code** | **Explanation of Functionality** |
| --- | --- | --- |
| 0x0000000000000eaa main | 0x0000000000000eaa <+0>: push %rbp  0x0000000000000eab <+1>: mov %rsp,%rbp  0x0000000000000eae <+4>: push %rbx  0x0000000000000eaf <+5>: sub $0x38,%rsp  0x0000000000000eb3 <+9>: mov %fs:0x28,%rax  0x0000000000000ebc <+18>: mov %rax,-0x18(%rbp)  0x0000000000000ec0 <+22>: xor %eax,%eax  0x0000000000000ec2 <+24>: lea 0x2dc(%rip),%rsi # 0x11a5  0x0000000000000ec9 <+31>: lea 0x201150(%rip),%rdi # 0x202020 <\_ZSt4cout@@GLIBCXX\_3.4>  0x0000000000000ed0 <+38>: callq 0xd10 <\_ZStlsISt11char\_traitsIcEERSt13basic\_ostreamIcT\_ES5\_PKc@plt>  0x0000000000000ed5 <+43>: lea 0x201384(%rip),%rsi # 0x202260 <\_Z4nameB5cxx11>  0x0000000000000edc <+50>: lea 0x20125d(%rip),%rdi # 0x202140 <\_ZSt3cin@@GLIBCXX\_3.4>  0x0000000000000ee3 <+57>: callq 0xd30 <\_ZStrsIcSt11char\_traitsIcESaIcEERSt13basic\_istreamIT\_T0\_ES7\_RNSt7\_\_cxx1112basic\_stringIS4\_S5\_T1\_EE@plt>  0x0000000000000ee8 <+62>: lea 0x2c3(%rip),%rsi # 0x11b2  0x0000000000000eef <+69>: lea 0x20112a(%rip),%rdi # 0x202020 <\_ZSt4cout@@GLIBCXX\_3.4>  0x0000000000000ef6 <+76>: callq 0xd10 <\_ZStlsISt11char\_traitsIcEERSt13basic\_ostreamIcT\_ES5\_PKc@plt>  0x0000000000000efb <+81>: lea 0x20137e(%rip),%rsi # 0x202280 <age>  0x0000000000000f02 <+88>: lea 0x201237(%rip),%rdi # 0x202140 <\_ZSt3cin@@GLIBCXX\_3.4>  0x0000000000000f09 <+95>: callq 0xcd0 <\_ZNSirsERi@plt>  0x0000000000000f0e <+100>: mov 0x20136c(%rip),%eax # 0x202280 <age>  0x0000000000000f14 <+106>: cmp $0x11,%eax  0x0000000000000f17 <+109>: jle 0xf54 <main+170>  0x0000000000000f19 <+111>: lea -0x40(%rbp),%rax  0x0000000000000f1d <+115>: lea 0x20133c(%rip),%rdx # 0x202260 <\_Z4nameB5cxx11>  0x0000000000000f24 <+122>: lea 0x293(%rip),%rsi # 0x11be  0x0000000000000f2b <+129>: mov %rax,%rdi  0x0000000000000f2e <+132>: callq 0x1056 <\_ZStplIcSt11char\_traitsIcESaIcEENSt7\_\_cxx1112basic\_stringIT\_T0\_T1\_EEPKS5\_RKS8\_>  0x0000000000000f33 <+137>: lea -0x40(%rbp),%rax  0x0000000000000f37 <+141>: mov %rax,%rsi  0x0000000000000f3a <+144>: lea 0x2010df(%rip),%rdi # 0x202020 <\_ZSt4cout@@GLIBCXX\_3.4>  0x0000000000000f41 <+151>: callq 0xd00 <\_ZStlsIcSt11char\_traitsIcESaIcEERSt13basic\_ostreamIT\_T0\_ES7\_RKNSt7\_\_cxx1112basic\_stringIS4\_S5\_T1\_EE@plt>  0x0000000000000f46 <+156>: lea -0x40(%rbp),%rax  0x0000000000000f4a <+160>: mov %rax,%rdi  0x0000000000000f4d <+163>: callq 0xd98 <\_ZNSt7\_\_cxx1112basic\_stringIcSt11char\_traitsIcESaIcEED1Ev@plt>  0x0000000000000f52 <+168>: jmp 0xf67 <main+189>  0x0000000000000f54 <+170>: lea 0x26c(%rip),%rsi # 0x11c7  0x0000000000000f5b <+177>: lea 0x2010be(%rip),%rdi # 0x202020 <\_ZSt4cout@@GLIBCXX\_3.4>  0x0000000000000f62 <+184>: callq 0xd10 <\_ZStlsISt11char\_traitsIcEERSt13basic\_ostreamIcT\_ES5\_PKc@plt>  0x0000000000000f67 <+189>: mov $0x0,%eax  0x0000000000000f6c <+194>: mov -0x18(%rbp),%rcx  0x0000000000000f70 <+198>: xor %fs:0x28,%rcx  0x0000000000000f79 <+207>: je 0xf9c <main+242>  0x0000000000000f7b <+209>: jmp 0xf97 <main+237>  0x0000000000000f7d <+211>: mov %rax,%rbx  0x0000000000000f80 <+214>: lea -0x40(%rbp),%rax  0x0000000000000f84 <+218>: mov %rax,%rdi  0x0000000000000f87 <+221>: callq 0xd98 <\_ZNSt7\_\_cxx1112basic\_stringIcSt11char\_traitsIcESaIcEED1Ev@plt>  ---Type <return> to continue, or q <return> to quit---  0x0000000000000f8c <+226>: mov %rbx,%rax  0x0000000000000f8f <+229>: mov %rax,%rdi  0x0000000000000f92 <+232>: callq 0xd70 <\_Unwind\_Resume@plt>  0x0000000000000f97 <+237>: callq 0xd20 <\_\_stack\_chk\_fail@plt>  0x0000000000000f9c <+242>: add $0x38,%rsp  0x0000000000000fa0 <+246>: pop %rbx  0x0000000000000fa1 <+247>: pop %rbp  0x0000000000000fa2 <+248>: retq | Asks user to enter name.  Asks user to enter age.  Checks to see if age is in accepted age range. If it is, it welcomes the user. If it is not, it says Invalid User. |
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