

dec 25, 21 14:25

cubes.txt

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Illustrated below is a very simple Fortran program consisting of one program unit, the main program. Three data objects are declared: H, T and U. These become the loop indices in a triply nested loop construct (8.5) containing a logical IF statement (8.3.2) that conditionally executes an input/output statement (9.2).

This Fortran program is standard conforming and should be compilable and executable on any standard Fortran computing system, producing the following output:

```
153
370
371
```

My Note:

executing this program results in a 4th output. I found out changing $t = 0, 9$ to $t = 1, 9$ having the results as stated in this example. Is this the right way to get that output?

```
noam@work /mnt/devel/study % cat their_cubes.f
program cubes
```

```
integer h, t, u
do h = 1, 9
  do t = 0, 9 !0,9 in handbook listing p. 40
    do u = 0, 9
      if(100*h + 10*t + u == h**3 + t**3 + u**3) &
        print "(3i1)", h, t, u
    end do
  end do
end do
end program cubes
```

```
noam@work /mnt/devel/study % ./their_cubes
```

```
153
370
371
407
```

```
noam@work /mnt/devel/study % cat my_cubes.f
program cubes
```

```
integer h, t, u
do h = 1, 9
  do t = 1, 9 !0,9 in handbook listing p. 40
    do u = 0, 9
      if(100*h + 10*t + u == h**3 + t**3 + u**3) &
        print "(3i1)", h, t, u
    end do
  end do
end do
end program cubes
```

```
noam@work /mnt/devel/study % ./my_cubes
```

```
153
370
371
```

```
noam@work /mnt/devel/study %
```