7_2課題

Wark7_2.java　の結果

```
(base) ■sky■tokumorisky java Wark7_2
The name of this network interface is utun3.
  All the IP addresses of this network interface are:
    fe80:0:0:0:26fd:865e:66d7:ace2%utun3
The name of this network interface is utun2.
  All the IP addresses of this network interface are:
    fe80:0:0:0:ce81:b1c:bd2c:69e%utun2
The name of this network interface is utun1.
  All the IP addresses of this network interface are:
    fe80:0:0:0:2e7e:2cbb:ac5c:6ba6%utun1
The name of this network interface is utun0.
  All the IP addresses of this network interface are:
    fe80:0:0:0:d731:5cc1:bebd:fd20%utun0
The name of this network interface is llw0.
  All the IP addresses of this network interface are:
    fe80:0:0:0:24b2:23ff:feb2:6388%llw0
The name of this network interface is awdl0.
  All the IP addresses of this network interface are:
    fe80:0:0:0:24b2:23ff:feb2:6388%awdl0
The name of this network interface is en3.
  All the IP addresses of this network interface are:
    fe80:0:0:0:aede:48ff:fe00:1122%en3
The name of this network interface is en0.
  All the IP addresses of this network interface are:
    2404:2d00:4800:15e3:7157:c536:d94d:7540%en0
    2404:2d00:4800:15e3:499:b71e:7846:4640%en0
    fe80:0:0:0:832:3794:51d3:a135%en0
    172.31.4.172
The name of this network interface is lo0.
  All the IP addresses of this network interface are:
    fe80:0:0:0:0:0:0:1%lo0
    0:0:0:0:0:0:0:1%lo0
    127.0.0.1
```

Ifconfig コマンドの結果

```
(base) ■sky■tokumorisky ifconfig
lo0: flags=8049<UP,LOOPBACK,RUNNING,MULTICAST> mtu 16384
    options=1203<RXCSUM,TXCSUM,TXSTATUS,SW_TIMESTAMP>
    inet 127.0.0.1 netmask 0xff000000
    inet6 ::1 prefixlen 128
    inet6 fe80::1%lo0 prefixlen 64 scopeid 0x1
    nd6 options=201<PERFORMNUD,DAD>
gif0: flags=8010<POINTOPOINT,MULTICAST> mtu 1280
stf0: flags=0<> mtu 1280
en3: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
```

```
     ether ac:de:48:00:11:22
     inet6 fe80::aede:48ff:fe00:1122%en3 prefixlen 64 scopeid 0x4
     nd6 options=201<PERFORMNUD,DAD>
     media: autoselect (100baseTX <full-duplex>)
     status: active
en1: flags=8963<UP,BROADCAST,SMART,RUNNING,PROMISC,SIMPLEX,MULTICAST>
mtu 1500
     options=460<TSO4,TSO6,CHANNEL_IO>
     ether 9e:17:a2:bb:87:01
     media: autoselect <full-duplex>
     status: inactive
en2: flags=8963<UP,BROADCAST,SMART,RUNNING,PROMISC,SIMPLEX,MULTICAST>
mtu 1500
     options=460<TSO4,TSO6,CHANNEL_IO>
     ether 9e:17:a2:bb:87:00
     media: autoselect <full-duplex>
     status: inactive
bridge0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu
1500
     options=63<RXCSUM,TXCSUM,TSO4,TSO6>
     ether 9e:17:a2:bb:87:01
     Configuration:
         id 0:0:0:0:0:0 priority 0 hellotime 0 fwddelay 0
         maxage 0 holdcnt 0 proto stp maxaddr 100 timeout 1200
         root id 0:0:0:0:0:0 priority 0 ifcost 0 port 0
         ipfilter disabled flags 0x0
     member: en1 flags=3<LEARNING,DISCOVER>
             ifmaxaddr 0 port 5 priority 0 path cost 0
     member: en2 flags=3<LEARNING,DISCOVER>
             ifmaxaddr 0 port 6 priority 0 path cost 0
     nd6 options=201<PERFORMNUD,DAD>
     media: <unknown type>
     status: inactive
ap1: flags=8802<BROADCAST,SIMPLEX,MULTICAST> mtu 1500
     options=400<CHANNEL_IO>
     ether 3e:22:fb:5b:15:b5
     media: autoselect
en0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500

options=6463<RXCSUM,TXCSUM,TSO4,TSO6,CHANNEL_IO,PARTIAL_CSUM,ZEROINVERT_
CSUM>
     ether 3c:22:fb:5b:15:b5
     inet6 fe80::832:3794:51d3:a135%en0 prefixlen 64 secured scopeid 0x9
     inet6 2404:2d00:4800:15e3:499:b71e:7846:4640 prefixlen 64 autoconf
secured
     inet6 2404:2d00:4800:15e3:7157:c536:d94d:7540 prefixlen 64 autoconf
temporary
     inet 172.31.4.172 netmask 0xffffff00 broadcast 172.31.4.255
     nd6 options=201<PERFORMNUD,DAD>
     media: autoselect
     status: active
awdl0: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 1500

options=6463<RXCSUM,TXCSUM,TSO4,TSO6,CHANNEL_IO,PARTIAL_CSUM,ZEROINVERT_
CSUM>
     ether 26:b2:23:b2:63:88
```

```
        inet6 fe80::24b2:23ff:feb2:6388%awdl0 prefixlen 64 scopeid 0xa
        nd6 options=201<PERFORMNUD,DAD>
        media: autoselect
        status: active
llw0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
        options=400<CHANNEL_IO>
        ether 26:b2:23:b2:63:88
        inet6 fe80::24b2:23ff:feb2:6388%llw0 prefixlen 64 scopeid 0xb
        nd6 options=201<PERFORMNUD,DAD>
        media: autoselect
        status: inactive
utun0: flags=8051<UP,POINTOPOINT,RUNNING,MULTICAST> mtu 1380
        inet6 fe80::d731:5cc1:bebd:fd20%utun0 prefixlen 64 scopeid 0xc
        nd6 options=201<PERFORMNUD,DAD>
utun1: flags=8051<UP,POINTOPOINT,RUNNING,MULTICAST> mtu 2000
        inet6 fe80::2e7e:2cbb:ac5c:6ba6%utun1 prefixlen 64 scopeid 0xd
        nd6 options=201<PERFORMNUD,DAD>
utun2: flags=8051<UP,POINTOPOINT,RUNNING,MULTICAST> mtu 1000
        inet6 fe80::ce81:b1c:bd2c:69e%utun2 prefixlen 64 scopeid 0xe
        nd6 options=201<PERFORMNUD,DAD>
utun3: flags=8051<UP,POINTOPOINT,RUNNING,MULTICAST> mtu 1380
        inet6 fe80::26fd:865e:66d7:ace2%utun3 prefixlen 64 scopeid 0xf
        nd6 options=201<PERFORMNUD,DAD>
```
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これらから言えること

Ifconfigによって出力されたネットワークインターフェースはactive,inactiveの両方である。しかし、Wark7_2.javaによって出力されたネットワークインターフェースはactiveのみである。従って、今現在activeであるものだけを知りたいなら後者を、inactiveのものを知りたいならば前者を採用することが望ましい。