mount a single partition from a dd disk image

if you have an image file created from a single partition using dd, you can simply use

```
mount -o loop yourimage.img /mountpoint
```

to mount it. however, things get a bit more complicated if the image at hand was made of a complete disk containing several partitions.

now you can either use a partitioning tool like fdisk to figure tout the partition boundaries of the partition you want to mount and then use losetup to create a loop device for that partition which you can then mount, or you can use a handy tool called kpartx which will do it all for you with a single command.. isn't that nice :) the tool can be found in most distributions repo, so simply install it with your packet manager. in ubutu the package is called kpartx

to have kpartx create a loop device and mappings in /dev/mapper/ for all your imaged partitions simply run (as root or using sudo)

```
kpartx -av yourimage.img
```

and it will tell you which loop devices it has created:

```
add map loop0p1 (252:0): 0 129024 linear /dev/loop0 8192
add map loop0p2 (252:1): 0 2578432 linear /dev/loop0 137216
```

now simply mount your partition as you would mount any partition on a regular block device and you're done

```
mount /dev/mapper/loop0p2 /mnt/
```

when you're done, you can unmount the partition and then remove the mappings:

```
umount /mnt
kpartx -d yourimage.img
```

in case your os automounted some other partitions after the mappings where created you might see an error message like this:

```
ioctl: LOOP_CLR_FD: No such device or address
```

simply unmount that now defunct partition and the mapping will disappear

You can also remove the mapping by loop device:

```
kpartx -d /dev/loop1
```

in case you have lost track of which image was mounted to which loop device, you can use losetup

to list the mappings:

```
losetup -a
```

or on newer versions of losetup:

```
losetup --list
```

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