

① algorithm to print single integer

```
int a[] = { }; // Reading an array
```

```
for (int i=0; i<a.length; i++)
```

```
{
    for (int j=i+1; j<a.length(); j++)
```

```
{
    if (a[i] == a[j])
```

```
{
    break;
}
```

```
else
```

```
{
    System.out.println(a[i]); // print the integer
}
```

```
}
```

```
}
```

23 23 24 25 25
0 1

23 = 23

23 ≠ 24

else
print
24.

②

a. we need to capture the locomotion of the animal and need to express as the spatial measurement (distance, speed, turning) etc... and frequency of the interaction activities as integer.

b. The most recent technology used for tracking the video and movement analysis is ethovision

- * In these system need to capture the video

- * convert the analog signal to digital by frame grabbed

- * then analysis the position of the object by using grayscale and their hue saturation values.

After detecting position the other features can be extracted like sleeping, grooming, distance etc.. by analyzing the whole

video frame.

③ Through the big data we can analyze the images.

Best examples for those things are

* Bar codes

* QR codes.

other popular image enhancement is histogram equalization histogram as a monochrome that represents the image.

④ By learning, the position of the object is fixed and then analyzing the video frame become very easy, so that we can know the frequently and all those interacting activities.

⑤ work flow diagram

