假设Ghost1与Ghost工相互独立,则问起形式可简化加工。

Le His cpt >> P(obs | Paeman, Ghost)

It j obs =
$$\max\{1, | \operatorname{Pacmon-Ghost}| + \nu\}$$
 $v > 1$. $P(v) = \frac{7-1VI}{382}, v = [-7, 7]$ t:

| obs | d= Pacman-Ghost | P(obs Ghost, Pacman) |
|--------|-------------------|---------------------------|
| [2,P0) | C1, 400) | P(v = obs - d) |
| | [1.8] | $\sum_{i=1}^{1-d} P(v=i)$ |

Q2

1.
$$P(obs = 6 \mid Paeman = 5, Ghost = 12)$$

= $P(oks = 6 - 7)$
= $P(v = -1) = \frac{2^{6}}{382}$

=
$$P(\text{obs} = 9 | G=12, P=5) \cdot P(\text{obs} = 1 | G=4, P=5)$$

: Ghost 1 11 Ghost 2

$$= P(v=2) \cdot \sum_{i=-1}^{5} P(v=i)$$

$$= \frac{2^{5}}{2^{6}} \cdot 2^{8} - 1$$

$$=\frac{\sum_{i=1}^{2}P(v=i)}{\sum_{d=1}^{2}\frac{\sum_{i=1}^{2}P(v=i)}{\sum_{i=1}^{2}P(v=i)}}$$

$$= \frac{1}{2} \cdot \frac{2^{8}-1}{(2^{1}-1)+(2^{2}-1)+\cdots+(2^{8}-1)}$$

$$=\frac{2^{8}-1}{2\cdot 5^{32}}$$

$$= \frac{p'_{CV=7)}}{2 \cdot \cancel{E}_{1} P'_{CV=8-d})} = \frac{2 \cdot 1}{2 \cdot 1}$$

$$=\frac{1}{2}\cdot\frac{1}{382}=\frac{1}{769}$$

$$=\frac{1}{769} \cdot P(G=3|P=9,obs=2)$$

$$= \frac{1}{7b\phi} \cdot \frac{1}{2} \cdot \frac{p(v=1)}{p(v=2-d)} = \frac{1}{2^{2}+\cdots + \frac{1}{2^{2}}} = \frac{1}{2^{8}+2^{5}-1} = \frac{1}{2^{19}}$$

$$=\frac{1}{760}\cdot\frac{2^{2}}{319}$$

Port 3.

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