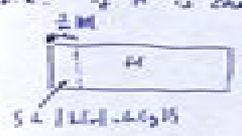


Definition of Hashing: For any choice of hash hash fn, exists a hash set of keys that all hash to the same value.
 choose hash function at random, indep. from keys.

Universal Hashing

Let U be a universe of keys. Let H be a finite collection of hash functions mapping $x \rightarrow \{0, 1, \dots, m-1\}$
 H is universal if $\forall x, y \in U$ ($x \neq y$): $|\{h \in H \mid h(x) = h(y)\}| = \frac{|H|}{m}$
 i.e. if h is chosen randomly from H , the prob. of collision between x and y is $\frac{1}{m}$



Theorem: If we choose h randomly from H , then $E[\# \text{ collisions}] \leq n/m$, where $n = \# \text{ keys}$ in table T

Proof: Let C_h be a random variable that # of collisions of keys in T with x and let
 $C_{xy} = \begin{cases} 1, & \text{if } h(x) = h(y) \\ 0, & \text{otherwise} \end{cases}$

Note: $E[C_{xy}] = \frac{1}{m}$ and $C_h = \sum_{x < y} C_{xy}$

$E[C_h] = \sum_{x < y} E[C_{xy}] = \sum_{x < y} \frac{1}{m} = \frac{n(n-1)}{2m}$

Constructing a universal hash function

Let m be prime. Represent any x into $r+1$ digits $x = (x_r, x_{r-1}, \dots, x_0)$ where $0 \leq x_i < m$

Then $a = (a_r, a_{r-1}, \dots, a_0)$, each a_i is chosen randomly from $\{0, \dots, m-1\}$ - random base m digit

Define $h_a(x) = \left(\sum_{i=0}^r a_i x_i \right) \text{ mod } m$

How big is $H = \{h_a\}$? $|H| = m^{r+1}$

Theorem: H is universal

Proof: Let $x = (x_r, x_{r-1}, \dots, x_0)$ be distinct keys. Any digit a_i at least 1 digit x_i where $x_i \neq y_i$ (without loss of generality assume $x_r \neq y_r$)
 $a = (a_r, a_{r-1}, \dots, a_0)$

For how many a do x and y collide? \Rightarrow must $h_a(x) = h_a(y) \Rightarrow \sum_{i=0}^r a_i x_i = \sum_{i=0}^r a_i y_i \text{ (mod } m)$
 $\Rightarrow \sum_{i=0}^r a_i (x_i - y_i) = 0 \text{ (mod } m) \Rightarrow a_r (x_r - y_r) + \sum_{i=0}^{r-1} a_i (x_i - y_i) = 0 \text{ (mod } m) \Rightarrow a_r (x_r - y_r) = -\sum_{i=0}^{r-1} a_i (x_i - y_i) \text{ (mod } m)$

Number theory fact: Let m be prime. For any $a \neq 0$ (a integer mod m): $a \neq 0, a^{-1} = a^{-1} \text{ mod } m$

Example: $m=7$

3	1	2	3	4	5	6
4	6	5	2	3	6	

So $a \neq 0, a^{-1} \exists (a \cdot a^{-1})^{-1} \Rightarrow a_r = \left(-\sum_{i=0}^{r-1} a_i (x_i - y_i) \right) (x_r - y_r)^{-1} \text{ (mod } m)$

thus, for any choice of a_0, \dots, a_{r-1} , there is exactly one a_r which causes x and y to collide

$\#$ h 's which cause x and y to collide = $\frac{m^r}{m} = \frac{|H|}{m}$

Notes On Hashing Mit

Ann Drinan



Notes On Hashing Mit:

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