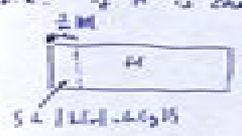


Definition of Hashing: For any choice of hash hash fn, exists a hash set of keys that all hash to the same value.
 choose hash function at random, indep. from keys.

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_x 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 $C_x = \sum_{y \neq x} C_{xy}$
 $E[C_x] = \sum_{y \neq x} E[C_{xy}] = \sum_{y \neq x} \frac{1}{m} = \frac{n-1}{m}$

Constructing a universal hash function

Let m be prime. Represent any n bit r -bit string $x = (x_0, x_1, \dots, x_{r-1})$ where $0 \leq x_i < m$

Then $a = (a_0, a_1, \dots, a_{r-1})$, each a_i is chosen randomly from $\{0, \dots, m-1\}$ - random base m digit

Define $h_a(x) = (\sum_{i=0}^{r-1} a_i x_i) \text{ mod } m$

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

Theorem: H is universal

Proof: Let $x = (x_0, x_1, \dots, x_{r-1})$ be distinct keys. Any digit a_i at least 1 digit $x_i \neq y_i$ without loss of generality $x_i \neq y_i$

For how many h_a do x and y collide? \Rightarrow must $h_a(x) = h_a(y) \Rightarrow \sum_{i=0}^{r-1} a_i x_i = \sum_{i=0}^{r-1} a_i y_i \text{ (mod } m)$
 $\Rightarrow \sum_{i=0}^{r-1} a_i (x_i - y_i) = 0 \text{ (mod } m) \Rightarrow a_i (x_i - y_i) = \sum_{j=0}^{i-1} a_j (y_j - x_j) \text{ (mod } m) \Rightarrow a_i (x_i - y_i) = -\sum_{j=0}^{i-1} a_j (x_j - y_j) \text{ (mod } m)$

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

Example: $m=7$

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

So $a = x_i - y_i \neq 0 \Rightarrow a_i = (-\sum_{j=0}^{i-1} a_j (x_j - y_j)) (x_i - y_i)^{-1} \text{ (mod } m)$

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

\Rightarrow h_a 's which cause x and y to collide = $\frac{m^i - 1}{m - 1} = \frac{|H|}{m}$

Notes On Hashing Mit

J. Hellmuth



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web youth football practice plans and planning template generic practice plan stretching 5 10 minutes we have our kids get into lines of 5 we have 5 lines across with each kid 5 yards behind the player in front of them each row is roughly 5 yards

apart this really depends on how many players you have and if your practice field has lines

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web aug 5 2022 below is a simple pre game practice plan schedule and a real example pre game practice plan 60 90 minutes 15 minutes pre warm ups qb center snaps 05 minutes coach team talk attendance 10 minutes dynamic warm ups 15 minutes special teams ko kr punt 05 minutes bathroom water break

sample practice plan 1 5 hours activity time who what 5 all - Oct 24 2022

web this game concept and playing area is similar to basketball but without the baskets or dribbling the ball starts with one player at the center of the field the object is to throw the football to a teammate in the circle or goal the player with the ball has to pass to his her teammates inside the game or can get

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web game planning templates allow you to fill out game plans scripts and a call sheet simultaneously gameplan is legit simple yet covers all aspects of your practice plan and call sheet

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web jul 25 2022 here is a video to youth football practice plans extra specifically of an 8u practice plan template in word that is go at my private youth football education

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web usa football s online practice planner gives you greater control of valuable practice time and a unique ability to track full contact drills while building health and safety guidelines into everything your players do with just a few clicks you can make practice more efficient and better organized for players parents and assistant coaches

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web sep 2 2014 pre practice warm up protocol motion iso stability ankles posterior chain force application xyz primals multiplane movement dynamics watch the following video and identify each component listed above this is taken from a football pre practice warm up but the protocols are applicable to any team or individual sport

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web a football practice plan template should include the following information 1 date and time of the practice session 2 location of the practice session 3 type of practice i e drill and scrimmage individual instruction etc 4 objective of the practice session 5 list of drills or activities planned for the session 6