template ctypename T> (ollapsing func (T&& U'x) > forwarding Ref class Abbos war) 3 net forwarding let | J& T& & auto & & x=10 > forwarding fet)tatic_castLT&R7 Reference Collapsing May happen Stal! nove is influented, better name more-cost 1. func (t&& un) a > more does not nely here 2. vsing LREF=My Class & Std: array Lint,500> everything lis stade allocated. Copy Elision is better lefficient than move. 3- dec/44/2 (x)d val=5 into Q=inta When Phualueis converted to objett it is called temporary materialization. auto s= string s'Abdu'')

PRival softing materialized String Str (100 000) A) Six in a movel from state, should be in valid state, generally not used for std string str (100 000) A) But there are coses. sized return 0, invariants must hold containers.

Str Vec suec;

Mailed from State is and sized to the state of the sver. pus h-back (Str) Model from State is not some with defaul constructed state, structed state, however for stlit generally holds as it is more efficient

Special Member Functions
Special Member Functi If exply functions or destructor is user declared then move members are not declared My Class (const My Classer) = delete=> User declared but deleted

My Class (const My Classer) = delete=> (ant be copied, if moves one not user

My Classer operator = (const My Classer) = belete=> (ant be copied, if moves one not be

My Classer operator = (const My Classer) = belete=> (ant be copied, if moves one not user declared then they are not written, so can't be moved as well declared then copy numbers are deleted If move number, are Weshpuld never delete move members. exer declared 3 defaul +

Adulte Sif cant be moved, fallbacked to copy enguey. Most of the time defaul constructor must exist, otherwise if limits usage (with containers etc) in her Myllass; NMyllass: If a class const or reference variable then default constructor is deleted. implicifly declared adefaulted

Conpiler decides for noexcept depending en member variables default constructors	1
uoid func (int x) noexcept; of guaranties that it want throw neexcept true); noexcept true); no throw copy-constructible-VZT>);	
uois funcint x) noexcepts of neexcept (true)	
with fine / T w nork cout (13-110-11)	
void fine (T x) no except (no except (x+x)); Sun evaluated context	
Destroctor is always defoulted, unless user de clores it.	-

Destroctor is always defor Ited, unless user de closes it.

If default constructor is user declared, everything else is defaulted about for Copy

If destructor is user declared, move's one not declared, others defaulted about the

If copy constructor is user declared, I, constructor not declared, destructor + (opy(=) = defaulted

If nove assignment is user declared, one members are deleted, constructor not declared, bestructor defaulted

If move assignment is declared, copy members are deleted, constructor not declared, bestructor defaulted

If move assignment is declared, to constructor destructor defaulted move const. not declared

Impule assignment not declared.

Myclass Obj statefault init Myclass Obj statedove init, first step is zero init When PR value inits a variable there is no copylwas different befor C++17)
Prvalue can be materialized when init something, or when it is discarded