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Algorithms Lab 2 answers

5.) Nothing was printed on screen.

6.) Hello i'm the default constructor from class monkey!

Hello i'm the constructor from class ape! That was called on input bool.

7.) Hello I’m function eatBanana from class monkey!

8.) Hello i'm the default constructor from class monkey!

Hello i'm the default constructor from class ape!

Hello i'm the default constructor from class whale!

Hello i'm the default constructor from class human!

9.) Destructor from monkey called

10.) Hello i'm function monkeyAround from class human!

11.) Hello i'm function monkeyAround from class human!

12.) Hello i'm function eatBanana from class monkey!

13.) Hello i'm function eatBanana from class ape!

14.) It returns an error “no matching function call to ‘monkey::useTool()’.

15.) Hello i'm function useTool from class human!

16.) Returns error “type `human' is not a base type for type `ape'” switching the statement from h = a; to h = (human\*)a; fixes the type casting error and returns “Hello i'm function useTool from class human!”

17.) Destructor from human called

The Destructor from whale called

Destructor from ape called

Destructor from monkey called

Hello i'm the default constructor from class monkey!

Hello i'm the constructor from class ape! That was called on input bool

Hello i'm the constructor from class whale! That was called on input char\*

Hello i'm the constructor from class human! That was called on input bool and char\* on ape and whale

18.) Hello i'm function sing from class whale!

19.) Destructor from human called

The Destructor from whale called

Destructor from ape called

Destructor from monkey called

Hello i'm the default constructor from class monkey!

Hello i'm the constructor from class ape! That was called on input bool

Hello i'm the default constructor from class whale!

Hello i'm the constructor from class whale! That was called on inputs bool and ape

20.) Added lines whale \*w;

w = new human;

w->sing();

which returned the results

Hello i'm the default constructor from class monkey!

Hello i'm the default constructor from class ape!

Hello i'm the default constructor from class whale!

Hello i'm the default constructor from class human!

Hello i'm function sing from class whale!

Also added dive function to monkey, whale and human and then added lines

a = (human\*)h;

a->dive();

which returned the results:

Hello i'm function dive from class monkey!