1)Consider an online auction system that you would like to implement. Write a one page Executive Summary for proposing such a system on this side only. (20 points)

into: - I love (lothing! Almost all millineials love (lothing and ways to be falinable thanks to social media and online shopping.

My close tis filled with (lothing and I want to get vid of some clothing and Make some money.

My closet is full, my bosened had all of my old clithing.

I don't wat to wear it be cause I don't like it aynore.

But I don't work to this it away.

People (on post their old (lothing and others night really like something that I don't like my nove. It's a which situation the aution system will allow users to post their clothing picture, our algorithm will alternately defend your vecoments. Also price at a recoment it. also price at a reasonce price.

Software engineers takes about 6 nonth to deploy on app Store- So the (ost is Vent (24,000) + (Salary) (5×6,000) teggipmen (20,000). We are (obleing at about \$350,000.

Conclusion — If this works out well we can create a auction playform for other things too like video genes, Books etc. It I I besult work wall, we can create a gentic auction site like ebay. But make it better. Durchan.

Wang,Qiman

2) Choose five principles of ethics in software engineering and on this side only give a situation (not in story form) where the given ethic is challenged. What should be done to act ethically? A given situation can only be used for one ethical principle. (20=5\*(1+2+1)=5\*4) points

Name of Ethic1 Collegue
Situation Challenging Ethic1 Your (SIKGU needs beip, but 1/64
don't want to keil perante for dort like him.
what should be done in this situation in order to act ethically you shall be profissional and help him. Don't bring personal feelings 19+0 work.
Name of Ethic2 Public
Situation Challenging Ethic2 you added a feature that you like, But is not benefical nor good for the
Publi (
What should be done in this situation in order to act ethically you don't add the
flature as it can be bad instead of good.
Name of Ethic3 SCIF
Situation Challenging Ethic3 You Hink You know everything and
Stops learning new technique nor Apratices
What should be done in this situation in order to act ethically Verp learning us
chology is charging so fatt in today's world.
Name of Ethic4 Product
Situation Challenging Ethica Vou Know You (as Make the Code
Situation Challenging Ethica You know you (in nake the code and frague be they But you close not to because
Your boss under pays You.
What should be done in this situation in order to act ethically you Should do the best
What should be done in this situation in order to act ethically for Should do the best you work on a product. Chique Uhality

Wang,Qiman

3) Give two advantages and two disadvantages for developing a system in JAVA in the form below. The same example cannot be used for both an advantage and a disadvantage. (10 points)

Advantaged Write Onle, Nun ayubere thanks to . (1915 files. Advantages Exceptions, to Catch evers at 911 Stages Of 9 (ode. Disadvantagel No Pointer, So it's limited in June Coding Manipulations. Disadvantage2 regaines SVM, the Systa has to have 500 In Stalled, and The lode hasto he compiled. Not an itemptate language like Python that runs on vuntime-4) Why does Java provide "buffers" for its readers and input streams? (10 points) belause reading byte by the is too inefficient. So Java provide Stream to allow Constant reading of data while Lyffer reading in a Luch of data at once In Menory. Buffer is built on top of Stream. 5) Why is a "USER-AGENT" sometimes necessary when accessing a URL in Java? (10 points) belows a user agent kind of represals your brower and

18th you know if you have the right legunses to run a Site.

als. to play peple for but scraping, so people (oney to a site with as worriged

public static int whatDoesThisDo(int[] of	e, int b) {	$\varphi$
int c = 0; int d = e.length - 1;		
while $(c \le d)$ {	14 2/2/16	1
int $f = c + (d - c) / 2$ ; if $(b < e[f]) d = f - 1$ ;	6 1 2 3 4	
else if $(b > e[f]) c = f + 1$ ;		
else return f; }		
return -1;		
}		
	Yetur Answer Your Answer	exif found
a) What does this code do? bin ary	Sear Ch veturn array IN	not found.
b) If $e = \{4, 3, 2, 1, 0\}$ and $b = 1$ , what does	s whatDoesThisDo(e, b) return?	
c) *RECOMMEND DO FIRST*. Rewrite	e the above code according to proper documents	nentation principles: order, and a Takke Va
	ch Tree (int[] arr, int t	_
int left Index =0; "left	•	arger value 1 {
int right Index = arrillength		
While (leftIndex <= right]	•	
10+ idXDifferage = Pig	HIndex - Jeff Index;	<b>~</b>
Int MidIndex = le	eftIndex + (idx difference)	(2);
if (targetValue < any	v[midIndex]){ midIndex-1; //eleminare V // Of midI	
richtadev -	$\sum_{i=1}^{N} (-1)^{i}$	idinder elever and
} .11997 + Mark = p	nid + nd ex - 1; // tleni-use V	911 cleases to light
Clse if (target Value 7 a	1/of mids	-nd(x
lest Today	··· [ ~ ] 4 4 4 4 4 4 1 1 1	
} Aid = Mid	Index +1; // eleminate all eleminate all eleminates and	next to the 18f-
else return a 17 d	110f Mid Index and	mid Index elament
3 Muhile 1000 k	Ill found the index of elemen	i. axxav
Keep running as	If ond the index of elements and slong as left Index not over the element in array	(1
Y Ethilla 1: 1	in in the hot our	Trup right Inta.
Veturn -1: // if not for Mbinary Search tree method	4) PLAME IN COM	•