

# SuperH.java

## Background:

You've probably all played (or at least heard of) the game of Hangman before. But that's too easy for the user! We want to create a game that is more difficult (maybe even impossible for short letter counts) for the user. Start by choosing a random integer from 5 to 9, and find all the words in the text file given of this length (read them into an array). Then, begin paring down the list according to the user's guesses, attempting to keep the largest subset possible. The goal is to make it as difficult as possible for the user, but you must "play fairly".

## Assignment:

1. Start by writing a game that plays Hangman. This is less difficult (but still challenging). Once you have the game of Hangman working, move on to creating the game where the words are pared down as the user makes letter guesses. If you can only write a program that plays the "traditional" game of Hangman (and you do it very well!) you can still earn 14/20 points.
2. Use the "starter class" provided.

See the sample run output on the following pages.

```
C:\JAVA>java SuperH show
```

```
WELCOME TO THE GAME OF SUPER HANGMAN.
```

```
A word, of length 5 to 9 letters, will be chosen at random from the dictionary.
You will be invited to input letter guesses, attempting to spell the word
before making 7 wrong guesses. If you can choose the correct letters before
making 7 wrong guesses, you win. If you reach 7 wrong guesses before
completing the word, you lose. Good luck!
```

```
Press the ENTER key to begin the game:
```

```
aarrghh  abalone  abandon  abasers  abashed  abashes  abasias
abasing  abaters  abating  abators  abattis  abaxial  abaxile
abbotcy  abdomen  abducted  abduces  abducts  abelian  abelias
abettal  abetted  abetter  abettor  abeyant  abfarad  abhenry
. . .
zonules  zoecia   zooglea  zooidal  zoology  zooming  zootier
zootomy  zorilla  zorille  zorillo  zosters  zouaves  zoysias
zydecos  zygomis  zygoles  zygoles  zygotis  zygotis  zymases
zymogen  zymosan  zymoses  zymosis  zymotic  zymurgy  zyzyva
```

\_ \_ \_ \_ \_ \_ \_ The word has 7 letters, and you've guessed:

Find the word in less than 7 wrong guesses. So far, you have made 0 wrong guess(es).

Please enter a new letter guess: e

aarrghh	abandon	abacias	abasing	abating	abators	abattis
abaxial	abbotcy	abducts	abfarad	abiding	abigail	ability
abiosis	abiotic	ablauts	ablings	aboding	abolish	abomasa
abomasi	abought	aboulia	aboulic	abounds	abroach	abrosia
. . .						
zingano	zingara	zingari	zingaro	zinging	zinkify	zinnias
zipping	zircons	zlotych	zoarial	zoarium	zodiacs	zombify
zonally	zonking	zonular	zonulas	zooidal	zoology	zooming
zootomy	zorilla	zorillo	zoysias	zygomas	zygosis	zygotic
zymosan	zymosis	zymotic	zymurgy	zyzzyva		

7 7894

\_ \_ \_ \_ \_ \_ \_ The word has 7 letters, and you've guessed: e

Find the word in less than 7 wrong guesses. So far, you have made 1 wrong guess(es).

Please enter a new letter guess: s

aarrghh	abandon	abating	abaxial	abbotcy	abfarad	abiding
abigail	ability	abiotic	aboding	abought	aboulia	aboulic
abroach	abuttal	acanthi	acapnia	acaroid	acaudal	accidia
acclaim	account	accrual	acholia	acicula	acidify	acidity
. . .						
zincify	zincing	zincoid	zingani	zingano	zingara	zingari
zingaro	zinging	zinkify	zipping	zlotych	zoarial	zoarium
zombify	zonally	zonking	zonular	zooidal	zoology	zooming
zootomy	zorilla	zorillo	zygotic	zymotic	zymurgy	zyzzyva

7 3780

\_ \_ \_ \_ \_ \_ \_ The word has 7 letters, and you've guessed: e s

Find the word in less than 7 wrong guesses. So far, you have made 2 wrong guess(es).

Please enter a new letter guess: a

bibbing	bibcock	bicolor	bidding	biffing	bifidly	bigfoot
bigging	biggity	bighorn	bigotry	bilging	bilking	billbug
billing	billion	billowy	biltong	bimorph	binding	binging

binning	biochip	biology	bionomy	biontic	bioptic	biotron
. . .						
wrongly	wrought	xiphoid	xylidin	xylitol	yipping	yirring
yocking	yodling	yoghurt	yowling	yttrium	yucking	yukking
zigging	zillion	zincify	zincing	zincoid	zinging	zinkify
zipping	zlotych	zombify	zonking	zoology	zooming	zootomy
zorillo	zygotic	zymotic	zymurgy			

7 1530

\_ \_ \_ \_ \_ \_ \_ The word has 7 letters, and you've guessed: e s a

Find the word in less than 7 wrong guesses. So far, you have made 3 wrong guess(es).

Please enter a new letter guess: r

bibbing	bibcock	bidding	biffing	bifidly	bigfoot	bigging
biggity	bilging	bilking	billbug	billing	billion	billowy
biltong	binding	binging	binning	biochip	biology	bionomy
biontic	bioptic	bitting	bittock	bivinyll	blighty	blindly
. . .						
woodbox	woodcut	wooding	woodlot	woofing	woozily	wotting
xiphoid	xylidin	xylitol	yipping	yocking	yodling	yowling
yucking	yukking	zigging	zillion	zincify	zincing	zincoid
zinging	zinkify	zipping	zlotych	zombify	zonking	zoology
zooming	zootomy	zygotic	zymotic			

7 1012

\_ \_ \_ \_ \_ \_ \_ The word has 7 letters, and you've guessed: e s a r

Find the word in less than 7 wrong guesses. So far, you have made 4 wrong guess(es).

Please enter a new letter guess: i

blowing	bluming	bobbing	bodying	bogging	bolling	bolting
bombing	bonding	bonging	bonking	bonnily	boobing	booking
booming	booting	boozily	boozing	bopping	bowling	bucking
budding	budging	buffing	bugging	bugling	bulging	bulkily
. . .						
tything	unbuild	unbuilt	unction	undoing	undying	unjoint
unthink	untying	upbuild	upbuilt	upclimb	upfling	upgoing
voguing	wolfing	wonning	wonting	wooding	woofing	woozily
wotting	yocking	yodling	yowling	yucking	yukking	zombify
zonking	zooming					

7 373

\_ \_ \_ \_ i \_ \_

The word has 7 letters, and you've guessed: e s a r i

Find the word in less than 7 wrong guesses. So far, you have made 4 wrong guess(es).

Please enter a new letter guess: y

- blowing bluming bobbing bogging bolling bolting bombing
- bonding bonging bonking boobing booking booming booting
- boozing bopping bowling bucking budding budging buffing
- bugging bugling bulging bulking bulling bullion bumming
- . . .
- touting tubbing tucking tufting tugging tumping tunning
- tupping tutting unbuild unbuilt unction undoing unjoint
- unthink upbuild upbuilt upclimb upfling upgoing voguing
- wolfing wonning wonting wooding woofing wotting zonking
- zooming

7 302

\_ \_ \_ \_ i \_ \_

The word has 7 letters, and you've guessed: e s a r i y

Find the word in less than 7 wrong guesses. So far, you have made 5 wrong guess(es).

Please enter a new letter guess: g

- blowing bluming bobbing bolling bolting bombing bonding
- bonking boobing booking booming booting boozing bopping
- bowling bucking budding buffing bulking bulling bumming
- bumping bunking bunting butling butting buzzing choking
- . . .
- putzing quoting tholing thouing tolling tombing tomming
- tooling tooting topping totting touting tubbing tucking
- tufting tumping tunning tupping tutting undoing upfling
- wolfing wonning wonting wooding woofing wotting zonking
- zooming

7 211

\_ \_ \_ \_ i \_ g

The word has 7 letters, and you've guessed: e s a r i y g

Find the word in less than 7 wrong guesses. So far, you have made 5 wrong guess(es).

Please enter a new letter guess: n

- blowing bluming bobbing bolling bolting bombing boobing
- booking booming booting boozing bopping bowling bucking

budding	buffing	bulking	bulling	bumming	bumping	butling
butting	buzzing	choking	chowing	chuting	cocking	codding
. . .						
pulling	pulping	pumping	pupping	putting	putzing	quoting
tholing	thouing	tolling	tombing	tomming	tooling	tooting
topping	totting	touting	tubbing	tucking	tufting	tumping
tupping	tutting	upfling	wolfing	wooding	woofing	wotting
zooming						

7 169

\_ \_ \_ \_ i n g    The word has 7 letters, and you've guessed: e s a r i y g n

Find the word in less than 7 wrong guesses. So far, you have made 5 wrong guess(es).

Please enter a new letter guess: u

blowing	bobbing	bolling	bolting	bombing	boobing	booking
booming	booting	boozing	bopping	bowling	choking	chowing
cocking	codding	codling	coffing	combing	comping	cooking
cooling	cooping	copping	cowling	docking	doffing	dolling
. . .						
lopping	lotting	mobbing	mocking	molding	molting	mooting
mopping	plowing	pocking	podding	polling	poohing	pooling
pooping	popping	potting	tholing	tolling	tombing	tomming
tooling	tooting	topping	totting	wolfing	wooding	woofing
wotting	zooming					

7 93

\_ \_ \_ \_ i n g    The word has 7 letters, and you've guessed: e s a r i y g n u

Find the word in less than 7 wrong guesses. So far, you have made 6 wrong guess(es).

Please enter a new letter guess: o

bobbing	bolling	bolting	bombing	bopping	bowling	cocking
codding	codling	coffing	combing	comping	copping	cowling
docking	doffing	dolling	dotting	fobbing	folding	fopping
fowling	hobbing	hocking	holding	holking	hopping	hotting
howking	howling	jobbing	jolting	jotting	lobbing	locking
lofting	lolling	lopping	lotting	mobbing	mocking	molding
molting	mopping	pocking	podding	polling	popping	potting
tolling	tombing	tomming	topping	totting	wolfing	wotting

7 56

\_ o \_ \_ i n g    The word has 7 letters, and you've guessed: e s a r i y g n u o

Find the word in less than 7 wrong guesses. So far, you have made 6 wrong guess(es).

Please enter a new letter guess: c

Sorry, but you made 7 incorrect guesses. The word was BOBBING

Thanks for playing SUPER HANGMAN, and please play again soon.

C:\JAVA>